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Statistics 1984



Ministry of
Natural
Resources

Hon. Michael Harris
Minister

Mary Mogford
Deputy Minister

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STATISTICS

1984

A statistical supplement to the Annual
Report of the Minister of Natural
Resources for the year ending
March 31, 1984.

\$2.00

Statistical Reports
Prepared by Branches

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MINISTRY OF NATURAL RESOURCES

Main Office in Whitney Block, Parliament Buildings, Toronto, Ontario M7A 1W3

*Hon. Alan W. Pope.....	Minister of Natural Resources
**John R. Sloan.....	Deputy Minister
***M. Mogford.....	Assistant Deputy Minister, Administration
G. A. McCormack.....	Assistant Deputy Minister, Northern Ontario. Box 5000, 435 James St. South, Thunder Bay 'F', Ontario P7C 5G6 Northwestern Region North Central Region Northern Region Northeastern Region Aviation and Fire Management Centre
R. J. Bugar.....	Assistant Deputy Minister, Southern Ontario. Maple, Ontario L0J 1E0 Algonquin Region Eastern Region Central Region Southwestern Region

MINISTERIAL AGENCIES

G. H. Ferguson, Q.C.....	Mining and Lands Commissioner
I. D. Bird.....	General Manager, Algonquin Forest Authority

Please note the following executive revisions prior to printing:

*As of February 8, 1985.....	Hon. Michael Harris Minister of Natural Resources
**As of February 18, 1985.....	Mary Mogford Deputy Minister
***As of February 18, 1985.....	D. Johnstone Acting Assistant Deputy Minister

Other positions in this book are as of December 31, 1984

OFFICE OF DEPUTY MINISTER

Room W-6320, Main Office, Telephone (416) 965-2704

Deputy Minister.....	John R. Sloan.....	W-6320.....2704
Administrative Assistant.....	Mrs. I. Hart.....	W-6320.....5873
Science Adviser and Research Co-ordinator.....	Dr. M. F. Walmsley...	W-6350.....5720
EXECUTIVE CO-ORDINATORS		
Forest Resources Group.....	K. A. Armson.....	W-3624.....4319
Mineral Resources Group.....	J. E. Finlay.....	W-6341.....4271
Outdoor Recreation Group.....	T. J. Millard.....	W-2341.....5661
Lands and Waters Group.....	H. A. Clarke.....	W-6626.....6046
Finance and Administration Group.	D. J. Johnstone.....	W-6346.....6147
POLICY AND PLANNING SECRETARIAT		
Director (acting).....	D. W. Simkin.....	W-6450.....8422
Secretary.....	Mrs. M. Forbes.....	W-6450.....8422
Outdoor Recreation Policy Officer..	D. W. Simkin.....	W-6447.....6712
Forest Resources Policy Officer....	E. E. Multamaki.....	W-6445.....6712
Mineral Resources Policy Officer...	Ms. R. E. Booth-Horst	W-6453.....6712
Policy Officer - Northern Ontario..	G. G. Pyzer.....	(807)...475-1271
Strategic Planning and Support.....	J. D. Ross.....	W-6446.....6371
Special Projects Officer.....	J. M. Kearns.....	W-6454.....6371
Land Use Planning Supervisor.....	L. A. Douglas.....	W-6452.....2899
Plan Input and Review Specialist...	J. C. Slot.....	W-6448.....2899
Environmental Assessment.....	R. D. La Prairie.....	W-6449.....5344
Integrated Resource Management Planning Specialist.....	G. D. Rodgers.....	W-6451.....2899

MINISTRY REGIONS AND DISTRICTS

Areas in Square Kilometres *

NORTHWESTERN REGION

Dryden	11,961	
Fort Frances	10,847	
Ignace	11,463	
Kenora	14,188	
Red Lake	64,105	
Sioux Lookout	<u>112,097</u>	<u>224,661</u>

Pt. Rainy Lake	1,222	
Pt. Lake of the Woods	<u>2,427</u>	<u>3,649</u>

Total, Region		<u>228,310</u>
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NORTHERN REGION

Chapleau	23,602	
Cochrane	30,715	
Gogama	7,752	
Hearst	25,245	
Kapuskasing	21,225	
Kirkland Lake	13,312	
Moosonee	215,741	
Timmins	<u>7,899</u>	<u>345,491</u>

Pt. Lake Abitibi	<u>790</u>	<u>790</u>
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Total, Region		<u>346,281</u>
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ALGONQUIN REGION

Algonquin Park	9,376	
Bancroft	4,239	
Bracebridge	6,454	
Minden	4,745	
Parry Sound	7,187	
Pembroke	<u>7,306</u>	<u>39,307</u>

Pt. Georgian Bay	<u>3,875</u>	<u>3,875</u>
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Total, Region		<u>43,182</u>
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SOUTHWESTERN REGION

Aylmer	6,731	
Chatham	7,389	
Owen Sound	7,817	
Simcoe	2,818	
Wingham	<u>6,889</u>	31,644

Pt. Lake Huron and Lake Erie	30,950	
Pt. Lake St. Clair	<u>673</u>	<u>31,624</u>

Total, Region		<u>62,268</u>
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NORTH CENTRAL REGION

Atikokan	11,321	
Geraldton	112,784	
Nipigon	25,574	
Terrace Bay	12,673	
Thunder Bay	<u>28,451</u>	<u>190,803</u>

Lake Nipigon	5,006	
Pt. Lake Superior	16,017	<u>21,023</u>

Total, Region		<u>211,826</u>
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NORTHEASTERN REGION

Blind River	9,516	
Espanola	9,523	
North Bay	10,668	
Sault Ste. Marie	7,912	
Sudbury	12,725	
Temagami	6,856	
Wawa	<u>22,535</u>	79,735

Pt. Lake Huron and Lake Superior	25,298	
Lake Nipissing	816	
Lake Wahnapiatae	<u>145</u>	<u>26,259</u>

Total, Region		<u>105,994</u>
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EASTERN REGION

Brockville	3,496	
Carleton Place	6,277	
Cornwall	5,594	
Napanee	6,537	
Tweed	<u>6,605</u>	<u>28,509</u>

Pt. Lake Ontario	4,333	<u>4,333</u>
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Total, Region		<u>32,842</u>
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CENTRAL REGION

Cambridge	7,141	
Huron	6,550	
Lindsay	6,856	
Maple	4,812	
Niagara	<u>2,670</u>	<u>28,029</u>

Pt. Lake Ontario and Lake Erie	8,109	
Lake Simcoe	<u>741</u>	<u>8,850</u>

Total, Region		<u>36,879</u>
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TOTALS

47 Districts	968,179	
12 Lakes	<u>100,403</u>	

Area of Ontario	1,068,582	
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* August 19, 1980
Surveys and Mapping Branch

FOREST RESOURCES GROUP

Room W-3623, Main Office

Telephone (416) 965-2785

Executive Co-ordinator.....	K. A. Armson.....	W-3624...5-4319
Secretary.....	Ms. O. Andrews....	W-3624...5-4319
Co-ordinator, Private Land Forestry...	W. K. Fullerton...	W-3621...5-3040
Chief Forest Economist.....	Dr. F. Miller.....	W-3627...5-2785

FOREST RESOURCES BRANCH

Room W-3640, Main Office

Telephone (416) 965-2575

Director.....	R. M. Monzon.....	W-3646...5-2787
Secretary.....	Mrs. J. Whorms....	W-3646...5-2577

FOREST PRODUCTION & CONTROL DIVISION

Supervisor.....	C. J. Heeney.....	W-3649...5-2575
Tree Seed & Forest Genetics Supvr...	Ms. R. M. Rauter..	W-3634...3-1334
Tree Seed Specialist.....	Ms. C. G. Graham..	W-3632...3-1334

Forest Production Policy

Section Spvr.....	J. R. Cary.....	W-3643...5-0378
Forest Production Analyst.....	J. A. Cooper.....	W-3650...5-2575
Silviculture Information Systems Analyst.....	M. A. Chaudhry....	W-3652...5-2575

Stock Production Section Spvr.....	R. J. Reffle.....	W-3655...5-2575
Soil & Plant Analyst.....	V. Sadreika.....	W-3653...5-2575
Tree Distribution Co-ordinator....	H. T. Tiemann.....	W-3654...5-2575
Silvicultural Data Controller.....	R. K. Crawford....	W-3648...5-2575

Forest Practices Section Spvr.....	W. Vonk.....	W-3621...5-2785
Silviculture Mechanization Specialist.....	A. Citro.....	W-3633...3-1334

PRIVATE LAND FORESTRY DIVISION

Section Spvr.....	R. N. Staley.....	W-3630...5-2785
Agreement Administrator.....	J. Brown.....	W3601...5-2731
Private Land Forestry Incentives Co-ordinator.....	Vacant.....	W-3632...5-2785
Private Land Forestry Promotion Co-ordinator.....	K. G. Higgs.....	W-3626...5-2785

PEST CONTROL DIVISION

Section Spvr.....	R. G. McGauley.....	Maple..832-2761
Forest Entomologist.....	J. J. Churcher.....	Maple..832-2761
Forest Pathologist.....	Dr. J. A. Juswich..	Maple..832-2761
Herbicide Specialist.....	Dr. R. A. Campbell.	Maple..832-2761
Pesticide Applications Specialist...	S. A. Nicholson....	Maple..832-2761

ONTARIO TREE IMPROVEMENT AND FOREST
BIOMASS INSTITUTE (OTIFBI)

Maple, Ontario L0J 1E0 Telephone (416) 832-2761

General Manager.....	D. P. Drysdale.....	832-2761
Executive Officer.....	D. Morgan.....	832-2761
Technology Transfer Specialist.....	D. Bates.....	832-2761
Scientific Photographer.....	J. Robinson.....	832-2761

TREE IMPROVEMENT AND BIOMASS SECTION

Principal Scientist (acting).....	Dr. G. Buchert.....	832-2761
Research Scientist Tree Breeding		
- Spruce.....	J. V. Hood.....	832-2761
Research Scientist Tree Breeding		
- Hard Pine.....	Dr. G. Buchert.....	832-2761

Forest Biomass Unit Leader.....	H. W. Anderson.....	832-2761
Research Scientist Upland		
Silviculture.....	P. Jaciw.....	832-2761
Research Scientist, Biotechnology.....	Dr. R. H. Ho.....	832-2761
Research Scientist, Roots.....	Dr. D. C. F. Fayle.....	832-2761
Research Scientist, Tree Seed.....	D. A. Skeates.....	832-2761
Research Scientist, Aspen		
Silviculture.....	D. Weingartner.....	Thunder Bay (807) 767-1607

Nursery/Greenhouse Arboreta

Unit Leader.....	K. Bennett.....	832-2761
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FOREST ECOLOGY AND SILVICULTURE SECTION

Principal Scientist.....	Dr. D. Burger.....	832-2761
Scientist, Tree Physiology.....	Y. T. Kim.....	832-2761
Research Scientist, Boreal		
Mixed Woods.....	G. B. MacDonald.....	Thunder Bay (807) 767-1607
Biomath/Program Analyst.....	R. Forslund.....	Thunder Bay (807) 767-1607
Research Scientist, Plant Stock.....	S. Colombo.....	832-2761
Silviculture and Tree Biology		
Unit Leader.....	Dr. C. Glerum.....	832-2761
Silviculture Specialist.....	G. Stroempl.....	832-2761

OTIFBI.....	R. Hutchison.....	(705) 737-5510
Midhurst, Ontario		
LOL 1X0		

OTIFBI.....	M. McLean.....	(705) 766-2671
Box 190		
Dorset, Ontario		
POA 1E0		

OTIFBI.....	K. M. McClain.....	(807) 767-1607
Box 2960		
Thunder Bay, Ontario		
P7B 5G5		

OTIFBI.....	Dr. A. G. Gordon....	(705) 949-9461
Box 490		
Sault Ste. Marie, Ontario		
P6A 5M7		

USE OF NURSERY STOCK IN YEAR ENDING MARCH 31, 1984

Use	Bare Root	Container		Total
		Ministry	Contract	
Crown Land and Agreement				
Forest	43,814,543	14,743,138	25,256,448	83,814,129
W.I.A.	8,922,252	-	-	8,922,252
Other Private Land	14,184,101	-	-	14,184,101
Education or Science	552,085	-	-	552,085
Miscellaneous	-	-	-	-
TOTAL	67,472,981	14,743,138	25,256,448	107,472,567

FOREST TREES PRODUCED AND PURCHASED BY THE MINISTRY

Number of trees in years ending March 31

Year	Bare Root	Container		Total
		Ministry	Contract	
1975	59,794,450	3,148,406	-	62,942,856
1976	50,944,733	5,346,866	-	56,291,599
1977	45,981,122	4,291,764	-	50,272,886
1978	48,291,842	5,461,375	-	53,753,217
1979	52,928,125	5,487,210	-	58,415,335
1980	61,453,461	7,944,817	-	69,398,278
1981	65,360,243	10,496,839	-	75,857,082
1982	69,448,150	13,950,538	-	83,398,688
1983	63,660,427	10,999,088	5,466,142	80,125,657
1984	67,472,981	14,743,138	25,256,448	107,472,567

PLANTING STOCK DISTRIBUTION

Bare Root Nursery Stock	
conifers	64,593,432
hardwoods	<u>2,879,549</u>
Total	67,472,981
Container Stock	
ministry facilities	14,743,138
contract facilities	<u>25,256,448</u>
Total	<u>39,999,586</u>
GRAND TOTAL	<u>107,472,567</u>

TREE PRODUCTION BY SPECIES

Number of trees in years ending March 31

Species	1980	1981	1982	1983	1984
White Spruce	16,687,027	14,384,928	16,394,578	16,396,972	15,037,822
Black Spruce	11,800,627	17,365,106	17,155,688	18,847,802	35,772,366
Red Pine	8,215,238	8,534,677	7,493,071	6,707,858	7,125,973
Jack Pine	18,832,062	19,143,238	25,830,821	21,744,405	33,456,807
White Pine	5,181,787	6,431,427	6,451,959	7,595,781	7,575,437
White Cedar	1,461,566	2,381,005	2,806,775	2,984,424	2,355,744
Scotch Pine	1,483,794	1,500,375	1,545,425	906,075	1,874,825
Silver Maple	423,958	563,229	240,785	502,402	413,503
Norway Spruce	1,158,639	1,367,267	1,093,919	1,021,589	873,810
Carolina Poplar	532,077	583,863	532,351	404,549	404,128
Black Walnut	301,305	459,275	364,000	333,125	330,585
White Ash	222,264	256,239	283,281	57,218	100,099
European Larch	175,874	489,290	275,202	164,918	123,540
Yellow Birch	41,440	80,144	116,400	20,000	4,115
Red Oak	499,244	258,284	316,191	178,717	179,827
Black Locust	190,235	203,250	164,475	217,950	158,875
Tamarack	255,211	143,777	309,506	434,983	163,826
Hemlock	529	68,746	272	14,725	17,264
Cottonwood	-	53,725	-	-	-
Hybrid Poplar					
Rooted	110,839	112,422	108,484	53,042	52,504
Unrooted	943,821	818,530	1,061,811	1,079,038	954,520
Japanese Larch	253,366	156,965	293,631	129,350	162,350
Aspen, unrooted	91,948	-	-	7,880	-
Other Species	535,427	501,320	560,063	322,854	334,647
TOTALS	69,398,278	75,857,082	83,398,688	80,125,657	107,472,567

TREES SUPPLIED FOR PLANTING ON PRIVATE LANDS

in years ending March 31

County, District or Regional Municipality	1980	1981	1982	1983	1984
Algoma	281,900	305,955	190,825	251,205	373,630
Brant	207,300	222,850	129,055	122,125	169,600
Bruce	282,953	194,197	278,020	138,851	193,992
Cochrane	560,600	705,480	1,072,250	536,825	792,140
Dufferin	486,250	507,385	470,585	307,250	368,495
Dundas	129,705	125,453	68,475	73,972	121,360
Durham*	480,901	479,450	538,150	487,200	531,925
Elgin	207,066	208,435	209,899	189,162	197,437
Essex	189,420	208,541	188,513	199,307	225,781
Frontenac	115,695	136,700	193,486	112,800	115,110
Glengarry	76,675	190,742	166,500	136,350	74,800
Grey	427,215	524,400	503,740	487,980	568,150
Haldimand	298,566	524,307	74,190	89,475	153,652
Haliburton	73,200	48,100	33,800	26,800	23,700
Halton	250,970	274,165	137,575	105,385	182,883
Hastings	172,443	169,042	317,973	178,422	360,897
Huron	185,406	273,100	198,264	147,279	244,654
Kenora	102,300	273,900	189,175	519,125	529,050
Kent	137,535	303,225	233,185	320,655	270,300
Lambton	178,900	192,941	239,577	174,693	150,309
Lanark	199,312	260,175	203,900	155,000	158,850
Leeds & Grenville	369,040	297,361	333,375	249,795	328,626
Lennox & Addington	126,175	107,775	128,350	154,095	109,600
Manitoulin	55,500	27,400	15,100	16,350	20,125
Middlesex	340,788	616,575	433,402	440,800	480,350
Muskoka	66,250	73,250	68,150	57,845	56,459
Niagara	299,162	366,493	365,481	211,336	310,746
Nipissing	98,125	41,925	60,770	75,455	293,100
Norfolk	32,600	1,100	411,302	431,250	314,710
Northumberland*	330,345	326,280	530,657	423,148	387,473
Ontario*	3,008	-	2,610	1,700	-
Ottawa-Carleton	396,699	300,615	265,310	160,530	162,805
Oxford	232,888	275,075	197,278	175,996	150,975
Parry Sound	273,600	338,250	188,650	50,625	155,225
Peel	295,543	289,669	265,910	188,300	192,635

County, District or Regional Municipality	1980	1981	1982	1983	1984
Perth	200,053	177,450	135,535	169,190	114,115
Peterborough	195,967	202,400	133,920	148,111	217,215
Prescott	225,425	123,875	142,825	250,400	131,150
Prince Edward	79,000	86,825	71,650	72,100	166,150
Rainy River	83,675	97,325	101,750	13,650	67,940
Renfrew	262,425	420,025	229,550	282,925	595,720
Russell	182,200	207,150	174,655	128,150	133,855
Simcoe	1,044,115	1,268,225	1,143,650	1,006,995	1,096,576
Stormont	84,518	138,703	50,100	60,500	93,095
Sudbury	372,482	465,222	415,335	590,029	490,255
Thunder Bay	133,675	418,325	113,325	62,975	206,150
Timiskaming	38,550	40,300	12,250	23,400	154,950
Victoria	250,207	283,922	278,930	204,725	251,689
Waterloo	267,950	170,052	111,100	86,757	190,075
Wellington	673,675	759,815	709,700	798,607	675,938
Wentworth	365,465	365,135	324,423	299,198	350,579
York	603,273	568,025	410,582	438,280	478,705
Durham Regional Municipality	-	1,550	150	-	400

	<u>TOTALS</u>
1980	13,026,690#
1981	14,984,610#
1982	13,449,912#
1983	12,032,896#
1984	14,184,101#

Excluding W.I.A.

* Totals do not reflect formation of the Regional Municipality of Durham

FOREST AREAS MANAGED BY THE MINISTER

in hectares at March 31, 1984

Agreement Holders	Term of Agreement	Added 1983-84	Total
GOVERNMENT OF CANADA			
National Capital Commission	Apr. 1961 - Mar. 2011	-	1,704.13
22 CONSERVATION AUTHORITIES			
Ausable Bayfield	*Jan. 1983 - Mar. 2004	40.47	1,814.21
Cataraqui Region	Apr. 1971 - Mar. 1996		342.31
Catfish Creek	Apr. 1962 - Mar. 2002		254.55
Crowe Valley	Jan. 1963 - Dec. 2003		80.94
Ganaraska	*Apr. 1977 - Mar. 2002		3,496.18
Grand River	Apr. 1961 - Mar. 2000		1,657.72
Lakehead Region	May 1958 - Apr. 2008		670.85
Long Point Regional	*Apr. 1982 - Mar. 2000		2,591.32
Lower Thames Valley	Apr. 1964 - Mar. 1984		121.41
Maitland Valley	Apr. 1955 - Mar. 2005		343.58
Metropolitan Toronto & Region	Apr. 1975 - Mar. 2000		785.90
Moir River	Apr. 1978 - Mar. 2000		6,807.13
Napanee Region	Oct. 1954 - Oct. 2004		2,732.44
Niagara Peninsula	June 1963 - Mar. 2003		75.27
North Grey Region	June 1958 - June 2008		2,882.67
Otonabee Region	Apr. 1976 - Mar. 2002		1,465.04
Raisin Region	Apr. 1971 - Mar. 2001		137.59
Sauble Valley	Apr. 1960 - Mar. 2002		1,547.52
Saugeen Valley	Apr. 1960 - Mar. 2002	27.92	5,285.39
South Nation River	Apr. 1975 - Mar. 2000		3,072.83
St. Clair Region	May 1965 - Apr. 1985		60.70
Upper Thames River	Apr. 1961 - Mar. 2001		1,363.29
Sub-total		68.39	37,588.84

Note: None released 1983-84.

Agreement Holder	Term of Agreement	Released 1983-84	Total
8 TOWNSHIPS			
Bonfield	TERMINATED Nov. 1983	24.28	---
Charlottenburgh	Apr. 1975 - Mar. 1995		77.70
Cramahe	Apr. 1963 - Mar. 2003		65.56
Cumberland	July 1980 - June 2030		371.68
Darlington	Apr. 1971 - Mar. 1991		56.66
Machar	Sept 1963 - Aug. 1993		36.42
Mosa	Apr. 1963 - Mar. 2003		58.27
Torbolton	Apr. 1983 - Mar. 2003		174.34
Williamsburg	Apr. 1962 - Mar. 2002		161.87
Sub-total		24.28	1,002.50

Note: None added 1983-84

Agreement Holder	Term of Agreement	Added 1983-84	Total
19 COUNTIES			
Brant	Apr. 1960 - Mar. 2000		40.19
Bruce	Apr. 1962 - Mar. 2002		6,106.03
Dufferin	Apr. 1971 - Mar. 1991		1,019.21
Grey	Apr. 1960 - Mar. 2000		3,481.19
Huron	Apr. 1960 - Mar. 2000		662.30
Kent	Apr. 1960 - Mar. 2000		30.51
Lanark	Apr. 1980 - Mar. 2000	202.34	3,711.37
Leeds & Grenville	Apr. 1975 - Mar. 1995		5,802.18
Lennox & Addington	Apr. 1960 - Mar. 2000		473.04
Middlesex	Apr. 1960 - Mar. 2000		980.96
Northumberland	Apr. 1981 - Mar. 2001	35.61	2,603.98
Oxford	Apr. 1961 - Mar. 2000		342.06
Peterborough	Apr. 1981 - Mar. 2001		80.94
Prescott & Russell	*Apr. 1983 - Mar. 2003	40.47	10,581.00
Renfrew	Apr. 1960 - Mar. 2000		6,498.32
Simcoe	Apr. 1960 - Mar. 2000		10,600.14
Stormont, Dundas & Glengarry	Apr. 1975 - Mar. 2000	23.47	3,077.03
Victoria	Nov. 1976 - Mar. 2000		3,794.71
Wellington	*Apr. 1963 - Mar. 2003		521.44
Sub-total		301.89	60,406.60

Note: Released 1983-84, 1.23, Grey County.

Agreement Holder	Term of Agreement	Added 1983-84	Total
6 REGIONAL MUNICIPALITIES			
Durham	*May 1980 - Apr. 2000		591.05
Halton	Apr. 1976 - Mar. 2000		632.29
Hamilton-Wentworth	Apr. 1961 - Mar. 1981		391.19
Ottawa-Carleton	Apr. 1974 - Mar. 2004		5,484.11
Waterloo	Apr. 1976 - Mar. 2001	45.05	304.54
York	Apr. 1977 - Mar. 2007		2,030.48
Sub-Total		45.05	9,433.66

Note: None released 1983-84.

INDUSTRY

Domtar Inc.	Apr. 1974 - Mar. 1999		900.02
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TOTAL 57 Managed Forest Areas

Added 1983-84	415.33
Released 1983-84	25.51
Total	111,035.75

* Replacement Agreement

SILVICULTURE OPERATIONS 1983-84
 Classification of Cutover Forest Land
 Area in hectares

	Crown Land	FMA's	Total Crown Lands	Agree- ment Forests	W.I.A.	Other Patent Lands	Total
Harvest Cut, evenaged management	110,935	31,116	142,051	1,249	188	9,598	153,086
Harvest Cut, unevenaged management	12,956	-	12,956	85	842	16,239	30,122
TOTAL	123,891	31,116	155,007	1,334	1,030	25,837	183,208

SUMMARY OF SILVICULTURAL OPERATIONS

Areas in Hectares in year ending March 31, 1984

	Crown Lands	Forest Management Agreements	Total Crown Lands
REGENERATION			
Planting Bare Root Stock	13,751	7,535	21,286
Planting Container Stock	9,727	8,162	17,889
Planting Hybrid Poplar Cuttings	212	74	286
Seeding	14,113	7,067	21,180
Scarification	831	279	1,110
Strip Cutting	469	249	718
Seed Tree Cutting	2,850	1,354	4,204
Shelterwood Cutting	10,308	-	10,308
Clear Cutting	10,393	3,728	14,121
Total	62,654	28,448	91,102
RE-TREATMENT			
Re-treatment area included in planting and total regeneration figures above	3,020	463	3,483
TENDING			
Hand Cleaning	4,834	1,448	6,282
Herbicide Spraying	7,487	13,638	21,125
Thinning Improvement Cuts	6,834	74	6,908
Pruning	751	-	751
Fertilization Drainage	207	-	207
Total	20,113	15,160	35,273
SITE PREPARATION	43,380	30,684	74,064
MARKING	42,298	3	42,301
TOTAL AREA TREATED	168,445	74,295	242,740

Agreement Forests	W.I.A.	Sub-total	Other Patent Lands	Total
119	5,405	26,810	3,213	30,023
73	126	18,088	60	18,148
157	57	500	101	601
1	-	21,181	65	21,246
-	-	1,110	-	1,110
-	-	718	2	720
-	-	4,204	-	4,204
35	122	10,465	214	10,679
22	92	14,235	1,643	15,878
407	5,802	97,311	5,298	102,609
61	1,334	4,878	-	4,878
91	492	6,865	202	7,067
457	2,188	23,770	2,087	25,857
1,513	2,545	10,966	1,841	12,807
406	409	1,566	9	1,575
32	15	254	-	254
2,499	5,649	43,421	4,139	47,560
379	1,854	76,297	735	77,032
2,431	3,974	48,706	7,778	56,484
5,7	17,279	265,735	17,950	283,685

CROWN LANDS TREATED

Areas in hectares in years ending March 31

Silvicultural Operations	1980	1981	1982	1983	1984
REGENERATION					
Planting Bare Root					
Stock.....	19,830	18,786	22,561	21,272	21,286
Planting Container					
Stock.....	3,860	4,829	6,357	7,305	17,889
Planting Hybrid Poplar					
Cuttings.....	-	24	31	19	286
Seeding.....	24,251	47,296	27,869	29,857	21,180
Scarification.....	2,392	3,241	1,653	817	1,110
Strip Cutting.....	2,058	1,562	2,879	1,445	718
Seed Tree Cutting.....	7,339	3,934	3,100	3,215	4,204
Shelterwood Cutting.....	9,867	9,794	7,738	9,431	10,308
Clear Cutting.....	2,266	6,202	4,909	7,552	14,121
Total.....	71,863	95,668	77,097	80,913	91,102
RE-TREATMENT.....	2,072	7,981	2,263	2,353	3,483
TENDING					
Hand Cleaning.....	5,326	4,481	3,686	5,844	6,282
Herbicide Spraying.....	13,156	25,404	19,668	26,165	21,125
Thinning Improvement Cuts....	8,511	8,209	6,679	6,698	6,908
Pruning.....	695	853	618	756	751
Fertilization Drainage.....	172	166	163	87	207
Total.....	27,860	39,113	30,814	39,550	35,273
SITE PREPARATION.....	49,061	51,057	53,289	67,583	74,064
MARKING.....	50,607	43,390	38,954	37,229	42,301
TOTAL AREA TREATED.....	201,463	237,209	202,417	225,275	242,740

TREE SEED PROGRAM 1983-84

SEED COLLECTION

Seed Crop By Species	Volume Collected (hl)
Jack pine	18,064.35
Black spruce	580.30
White spruce	82.88
White pine	110.10
White cedar	32.57
Red pine	199.77
Black walnut	1,543.30
Other species	177.34
Total	20,790.61

1983 SEED DISTRIBUTION

Direct seeding	995,400,000
Nursery stock production	560,360,000
Container stock production	118,370,000
Research and miscellaneous	49,900,000
Total viable seed	1,724,030,000

SEED IN STORAGE AS OF MARCH 31, 1984
(ONTARIO TREE SEED PLANT)

No. of viable seed (billion)	10.530
No. of different species	74
Total weight (kg)	36,274
Total value (million)	\$5.4

TREE SEED AREAS

Areas in hectares

Species	Seed Collection Areas	Seed Production Areas	Seed Orchards (areas planted to date)
Black Spruce	554.7	171	68.4
White Spruce	202.8	212.8	18.4
White Pine	253	579.5	20.5
Jack Pine	11,476.7	1,195.4	2.5
Others	470.7	539.4	17.9
Total	12,957.9	2,698.1	127.7

1983-84 FORESTRY EXTENSION ACTIVITIES

Inquiries serviced	112,654
Field inspections	8,748
Advisory service plans prepared	1,246
Volume of timber marked - sawlogs (cubic metres)	348,123
- pulpwood (cubic metres)	54,123
- fuelwood (cubic metres)	209,185
Public education activities	1,649
Forestry instruction - youth groups (no.)	242
Forestry instruction - education facilities (hrs.)	4,197
Total trees planted - private orders	14,184,101

THE WOODLANDS IMPROVEMENT ACT

	No. of Agreements	Area in Hectares
New W.I.A. Agreements Activated in 1983-84	553	5,518
Total W.I.A. Agreements in effect to March 31, 1984	9,802	151,213
New Advisory Service Agreements Activated in 1983-84	75	1,326
Advisory Service Agreements in effect to March 31, 1984	172	2,467
Total Trees Planted - W.I.A.:	8,922,252	

FOREST RESOURCES GROUP

TIMBER SALES BRANCH

Room W-3610, Main Office

Telephone (416) 965-2731 or 963-2396

Director.....	E. Markus.....	W-3612...965-3948
Special Projects Co-ordinator..	R. P. Alton.....	W-3610.....3-2396

TIMBER ALLOCATION SECTION

Supervisor.....	K. E. Cleary.....	W-3611...3-2396
Timber Licensing Spvr.....	R. Beny.....	W-3610...3-2396
Licensing Unit Spvr.....	F. C. Parris.....	W-3601...5-2731
Resource Economist.....	I. A. Nausedas.....	W-3601...5-2731
Industry Liaison Officer.....	W. D. Wardle.....	W-3625...5-2785

MANAGEMENT PLANS SECTION

Supervisor.....	A. M. van Fraassen.....	W-3522...5-7631
Mensuration Unit		
Chief Mensurationist.....	J. A. Mervart.....	W-3526...5-7631
Mensurationist.....	A. F. Beckwith.....	Maple. 832-2761
Site & Productivity Analyst..	G. Pierpoint.....	Maple..832-2761
Biomathematician.....	F. L. Raymond.....	Maple..832-2761
Methods and Procedures Specialist.....	D. C. MacIver.....	W-3527...5-7631
Planning Unit		
Planning Analyst.....	G. Protich.....	W-3525...5-7631
Planning Analyst.....	H. van Bers.....	W-3523...5-7631
FMA Co-ordinator.....	T. J. Tworzyanski.....	W-3524...5-7631

WOOD MEASUREMENT SECTION

Supervisor.....	J. H. Butts.....	W-3642...5-0378
Provincial Wood Measurement		
Training Officer.....	J. Bingley.....	W-3641...5-0378
Senior Data Processing Officer.	R. G. Johnson.....	W-3641...5-0378
Data Control Officer.....	I. Mahler.....	W-3641...5-0378

FOREST MANAGEMENT INFORMATION SECTION

Supervisor.....	J. E. Osborn.....	W-3542...5-6914
Forest Resources Inventory Unit		
Supervisor.....	D. B. Cardwell.....	W-3544...5-6914
Darkroom Spvr.....	J. Howard.....	W-3520...5-6914
Operations Manager.....	D. Trafford.....	W-3543...5-6914
Photo Interpretation Spvr....	A. Manley.....	W-3546...5-6914
FORMAGAIN Unit		
Supervisor.....	W. E. Jenns.....	M1B-43...3-0822

MANAGEMENT UNITS

Areas in square kilometres at March 31

CROWN LAND FORESTS						
Year	No.	Crown Area	No.	Company Area	No.	FMA Area
1980	88	334,418.0	17	198,751.0	-	-
1981	78	333,402.0	14	165,016.0	5	45,584.0
1982	82	333,571.0	15	156,006.0	8	52,406.0
1983	77	333,781.0	13	139,120.0	13	70,218.0
1984	75	321,122.0	12	126,461.0	17	88,971.0

AGREEMENT FORESTS

No.	Total Area	No.	Area
105	533,169.0	60	1,090.0
97	544,002.0	60	1,096.6
105	541,983.0	58	1,013.0
103	543,119.0	58	1,109.0
104	536,554.0	58	1,108.0

STATUS OF FOREST MANAGEMENT PLANS, MARCH 31, 1984

Areas in square kilometres

	Forest Management Units						Agreement Forests	
	No.	Crown Area	No.	Company Area	No.	FMA Area	No.	Area
Approved Mgmt. Plans	33	102,264	5	64,097	6	53,105	34	588
Forest Mgmt. Plans submitted for review and approval	23	90,878	6	61,485	2	8,656	-	-
Forest Mgmt. Plans being prepared	8	23,747	1	879	9	27,210	24	520
Plans are req'd (Inactive)	11	101,810	-	-	-	-	-	-
Unalienated Crown Lands	-	2,423	-	-	-	-	-	-
Total	75	321,122	12	126,461	17	88,971	58	1,108

TIMBER LICENCES under the Crown Timber Act

Areas in square kilometres at March 31

Year	Under Section 2		Under Section 3		Under Section 5	
	No.	Area	No.	Area	No.	Area
1980	78	75.6	412	242,711.9	20	86.5
1981	56	69.4	423	198,334.8	64	329.7
1982	34	48.0	412	181,297.1	58	643.0
1983	26	32.3	415	178,967.1	52	545.6
1984	34	37.4	442	159,133.5	29	407.9

Under Section 6		Total Licences	
No.	Area	No.	Area
-	-	510	242,874.1
5	45,583.8	548	244,317.7
8	61,788.8	512	243,776.9
13	79,627.8	506	259,172.8
17	88,998.9	522	248,577.7

MILL LICENCES

Type of Mill	1979	1980	1981	1982	1983
Saw Mills, 8-hour capacity					
Lumber....over 50M fbm	54	60	60	59	58
Lumber....10M to 50M fbm	96	96	85	87	88
Lumber....under 10M fbm	594	648	608	593	613
Misc. Sawm Products.....	41	38	50	68	44
Saw Mills, Total.....	785	842	803	807	803
Veneer Mills.....	28	31	25	26	25
Pulp Mills.....	23	21	21	21	20
Total.....	836	894	849	854	848

TIMBER HARVESTED ON CROWN LANDS BY SPECIES

In cubic metres and \$000s in years ending March 31

Species	1980	1981	1982	1983	1984
SOFTWOOD					
Balsam	662,803	926,677	718,975	586,883	638,428
Cedar	22,886	13,972	13,659	17,195	18,667
Hemlock	64,167	59,109	63,504	47,361	65,111
Jack Pine	6,207,462	5,927,897	5,362,713	4,135,200	5,182,626
Red Pine	192,051	187,494	183,663	168,759	193,575
White Pine	607,311	495,271	529,159	563,024	754,044
Spruce	8,901,496	8,692,652	7,724,772	6,707,133	8,423,622
Tamarack	4,622	5,658	2,330	1,168	2,740
Mixed	9,970	10,017	18,503	30,599	20,691
HARDWOOD					
Ash	2,494	1,519	2,021	1,558	1,516
Basswood	13,897	9,069	11,042	7,769	8,544
Beech	23,453	15,737	19,581	18,377	17,999
White Birch	96,526	62,557	77,523	93,562	83,668
Yellow Birch	121,990	90,478	105,982	78,058	94,616
Butternut	14	16	16	36	21
Cherry	1,243	634	1,373	1,584	2,046
Elm	306	111	39	165	35
Ironwood	1	-	1	1	2
Maple	270,417	178,833	219,345	164,317	204,384
Oak	14,362	10,845	11,389	10,415	14,190
Poplar	1,509,922	1,414,955	1,800,431	1,505,038	2,243,088
Mixed	677,854	633,769	647,366	648,316	743,663
TOTALS					
Softwoods	16,672,766	16,318,746	14,617,179	12,257,322	15,299,504
Hardwoods	2,732,479	2,418,525	2,896,121	2,529,198	3,413,771
Total	19,405,245	18,737,271	17,513,300	14,786,521	18,713,275
Value	\$46,184	\$43,727	\$42,453	\$35,037	\$47,151

VOLUME AND VALUE OF TIMBER CUT FROM CROWN LANDS

in year ending March 31, 1984

Tree Species	Volume in Cubic Metres	Bonus \$	Crown Dues \$	Stumpage Value \$
SOFTWOODS				
White Pine	754,043.748	813,532.88	1,908,021.46	2,721,554.34
Red Pine	193,575.168	206,377.49	505,475.79	711,853.28
Jack Pine	5,182,625.544	579,575.92	13,838,095.62	14,417,671.54
White Spruce	108,425.289	5,048.81	299,632.64	304,681.45
Black Spruce	694,681.482	30,391.49	1,924,792.41	1,955,183.90
Spruce, Mixed	7,620,515.316	1,015,264.77	20,477,435.52	21,492,700.29
Hemlock	65,111.018	22,496.28	172,745.60	195,241.88
Balsam	638,427.935	90,932.80	1,601,764.55	1,692,697.35
Cedar	18,667.324	7,879.63	42,206.91	50,086.54
Tamarack	2,740.006	261.63	6,490.23	6,751.86
Conifers, Mixed	20,691.448	3,580.99	11,297.45	14,878.44
Total Softwoods	15,299,504.278	2,775,342.69	40,787,958.18	43,563,300.87
HARDWOODS				
Maple	204,383.871	186,199.00	518,575.79	704,774.79
Yellow Birch	94,616.106	161,744.23	276,636.39	438,380.62
White Birch	83,668.153	49,550.94	43,769.71	93,320.65
Oak	14,189.960	20,529.79	30,142.79	50,672.58
Beech	17,998.684	13,150.42	40,784.83	53,935.25
Ash	1,516.181	1,810.66	3,251.25	5,061.91
Elm	34.516	30.52	119.84	150.36
Basswood	8,543.787	16,950.81	18,476.01	35,426.82
Butternut	20.546	248.15	55.57	303.72
Ironwood	1.670	-	0.91	0.91
Cherry	2,046.458	946.60	4,595.70	5,542.30
Poplar	2,243,087.703	291,064.98	1,215,875.96	1,506,940.94
Hardwoods, Mixed	743,663.094	306,880.01	386,772.45	693,652.46
Total Hardwoods	3,413,770.729	1,049,106.11	2,539,057.20	3,588,163.31
GRAND TOTAL	18,713,275.007	3,824,448.80	43,327,015.38	47,151,464.18

TIMBER HARVESTED ON CROWN LANDS BY METHOD OF MEASUREMENT

in cubic metres and \$000s in years ending March 31

Year	Stacked		Cubic	
	Softwood	Hardwood	Softwood	Hardwood
1979	4,291,932	755,807	6,346,902	579,123
1980	4,698,427	770,447	6,559,707	715,644
1981	4,380,421	723,064	6,339,098	513,585
1982	3,889,894	558,760	5,070,186	611,389
1983	2,974,245	650,425	4,313,754	525,436
1984	3,192,571	499,699	5,354,306	903,933

Year	Foot Board Measure			Mass	Total	Stumpage Value
	Grade 1	Grade 2	Grade 3			
1979	135,462	218,731	114,054	5,323,371	17,765,383	\$35,986
1980	131,394	207,162	109,406	6,213,058	19,405,245	\$46,184
1981	90,064	144,986	70,785	6,475,267	18,737,271	\$43,727
1982	107,244	181,592	81,943	6,719,923	17,513,300	\$42,453
1983	79,545	131,481	71,228	6,040,406	14,786,521	\$35,037
1984	104,431	157,403	81,517	8,419,414	18,713,275	\$47,151

TIMBER HARVESTED ON CROWN LANDS BY REGION

Administrative Regions of Ministry of Natural Resources
in cubic metres in years ending March 31

Region	1980	1981	1982	1983	1984
Northwestern					
Softwoods	3,920,143	3,925,760	3,688,116	2,888,440	3,830,981
Hardwoods	42,118	55,195	71,194	76,868	90,337
North Central					
Softwoods	5,639,882	5,138,761	4,464,605	4,007,835	4,368,590
Hardwoods	914,377	859,906	923,375	847,995	1,133,546
Northern					
Softwoods	5,580,101	5,576,718	4,795,869	3,945,635	5,200,631
Hardwoods	451,595	432,151	538,589	533,394	781,957
Northeastern					
Softwoods	1,112,628	1,181,886	1,315,205	1,093,690	1,517,671
Hardwoods	652,473	552,629	766,063	523,773	703,510
Algonquin					
Softwoods	378,349	477,330	324,081	294,264	363,038
Hardwoods	579,706	436,581	492,500	442,689	606,772
Eastern					
Softwoods	41,469	18,291	29,304	22,852	18,595
Hardwoods	91,509	82,063	104,400	104,479	97,649
Central					
Softwoods	194	-	-	4,607	-
Hardwoods	701	-	-	-	-
Southwestern					
Softwoods	-	-	-	-	-
Hardwoods	-	-	-	-	-
Totals, Ontario					
Softwoods	16,672,766	16,318,746	14,617,179	12,257,322	15,299,504
Hardwoods	2,732,479	2,418,525	2,896,121	2,529,198	3,413,771
Grand Total	19,405,245	18,737,271	17,513,300	14,786,521	18,713,275

TIMBER HARVESTED ON CROWN LANDS BY METHOD OF MEASUREMENT AND TREE SPECIES
in year ending March 31, 1984

Unit of Measurement Tree Species	Billing Units	Equivalent Cubic Metres	Crown Dues \$	Stumpage Value \$
<hr/>				
STACKED, ROUGH				
White Pine	11,609.983	11,609.983	27,462.81	28,306.83
Red Pine	4,890.154	4,890.154	11,298.59	11,469.49
Jack Pine	1,079,475.375	1,079,441.277	2,846,049.12	2,915,697.55
Black Spruce	98.816	98.816	196.84	248.21
Spruce, Mixed	1,358,103.652	1,355,496.659	3,614,998.70	3,721,135.19
Hemlock	421.825	421.825	1,062.45	1,143.44
Balsam	50,819.489	50,819.489	115,902.14	128,777.89
Cedar	2,507.044	2,506.864	5,308.95	5,793.12
Tamarack	637.894	637.894	1,194.24	1,233.86
White Birch	18,636.069	18,636.069	10,086.09	20,747.14
Poplar	336,390.871	335,993.963	179,616.68	214,280.81
Hardwoods, Mixed	281.298	281.298	153.03	878.85
<hr/>				
SUB-TOTAL	2,863,872.470	2,860,834.291	6,813,329.64	7,049,712.38
<hr/>				
STACKED, PEELED				
Jack Pine	135,628.875	135,628.875	374,475.56	383,539.76
Spruce, Mixed	440,736.812	440,736.812	1,218,884.18	1,249,767.92
Balsam	91,875.365	91,875.365	215,445.55	221,260.16
Poplar	72,521.441	72,521.441	39,732.44	42,778.04
<hr/>				
SUB-TOTAL	740,762.493	740,762.493	1,848,537.73	1,897,345.88
<hr/>				

Unit of Measurement Tree Species	Billing Units	Equivalent Cubic Metres	Crown Dues \$	Stumpage Value \$
<hr/>				
CUBIC METRES				
White Pine	541,498.891	541,498.891	1,343,374.14	1,934,617.63
Red Pine	108,206.828	108,206.828	277,795.58	412,977.35
Jack Pine	989,023.693	989,405.989	2,640,230.89	2,759,426.07
White Spruce	108,425.289	108,425.289	299,632.64	304,681.45
Black Spruce	694,582.666	694,582.666	1,924,595.57	1,954,935.69
Spruce, Mixed	2,650,238.605	2,650,238.605	7,147,239.15	7,572,606.57
Hemlock	44,726.567	44,726.567	117,741.11	131,859.14
Balsam	196,671.120	196,671.120	472,759.17	500,062.00
Cedar	16,160.460	16,160.460	36,897.96	44,293.42
Tamarack	2,102.112	2,102.112	5,295.99	5,518.00
White Birch	64,942.438	64,942.438	33,638.23	72,528.12
Poplar	641,794.935	641,794.935	342,720.93	427,779.89
Hardwoods, Mixed	2.113	2.113	5.32	5.32
<hr/>				
SUB-TOTAL	6,058,375.717	6,058,758.013	14,641,926.68	16,121,290.60
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BOARD FOOT MEASURE, GRADE 1				
Maple	11,176.360	60,388.555	282,239.16	373,583.96
Yellow Birch	6,937.580	32,964.307	161,841.65	234,965.90
Oak	573.240	3,752.735	17,110.38	27,482.68
Beech	730.560	4,288.602	19,774.08	25,438.60
Ash	57.490	358.426	1,632.74	2,355.10
Elm	3.280	15.011	76.96	92.81
Basswood	333.450	2,252.853	10,089.27	16,615.65
Butternut	1.530	7.222	34.18	140.13
Cherry	78.960	403.214	1,892.90	2,183.86
<hr/>				
SUB-TOTAL	19,892.450	104,430.925	494,691.32	682,858.69
<hr/>				

Unit of Measurement Tree Species	Billing Units	Equivalent Cubic Metres	Crown Dues \$	Stumpage Value \$
BOARD FOOT MEASURE, GRADE 2				
Maple	17,549.930	93,930.105	215,509.50	296,202.80
Yellow Birch	9,248.320	45,268.896	107,666.15	194,780.89
Oak	777.480	4,995.483	10,840.45	18,540.61
Beech	1,470.570	8,203.524	18,670.74	24,337.81
Ash	99.860	625.837	1,393.70	2,172.78
Elm	3.430	16.854	41.74	56.23
Basswood	481.480	3,256.037	7,164.10	14,079.39
Butternut	1.680	8.390	19.27	156.15
Ironwood	0.030	0.149	0.35	0.35
Cherry	208.310	1,098.208	2,485.34	3,065.11
SUB-TOTAL	29,841.090	157,403.483	363,791.34	553,392.12
BOARD FOOT MEASURE, GRADE 3				
Maple	8,339.450	50,065.211	20,827.13	34,988.03
Yellow Birch	3,060.200	16,382.903	7,128.59	8,633.83
Oak	786.690	5,441.742	2,191.96	4,649.29
Beech	960.530	5,506.558	2,340.01	4,158.84
Ash	72.760	531.918	224.81	534.03
Elm	0.470	2.651	1.14	1.32
Basswood	370.680	3,034.897	1,222.64	4,731.78
Butternut	0.890	4.934	2.12	7.44
Ironwood	0.240	1.521	0.56	0.56
Cherry	89.140	545.036	217.46	293.33
SUB-TOTAL	13,681.050	81,517.371	34,156.42	57,998.45

Units of Measurement Tree Species	Billing Units	Equivalent Cubic Metres	Crown Dues \$	Stumpage Value \$
MASS-SCALED WOOD				
White Pine	164,967.801	200,934.874	537,184.51	758,629.88
Red Pine	68,084.551	80,478.186	216,381.62	287,406.44
Jack Pine	2,406,337.703	2,978,149.403	7,977,340.05	8,359,008.21
Spruce, Mixed	2,440,849.615	3,174,039.972	8,496,311.83	8,949,188.95
Hemlock	18,533.726	19,962.626	53,942.04	62,239.30
Balsam	274,918.797	299,061.961	797,657.69	842,597.30
Poplar	1,182,075.654	1,192,777.364	653,805.91	822,102.20
Hardwoods, Mixed	521,116.343	465,282.387	242,005.13	379,871.36
SUB-TOTAL	7,076,884.190	8,410,686.773	18,974,628.78	20,461,043.64
FUELWOOD, STACKED, CUBIC METRES				
Conifers, Mixed	18,407.315	18,407.315	10,135.69	10,519.78
Hardwoods, Mixed	72,874.298	72,226.405	39,304.21	96,117.69
SUB-TOTAL	91,281.613	90,673.720	49,439.90	106,637.47
FUELWOOD, CUBIC METRES				
Conifers, Mixed	2,284.133	2,284.133	1,161.76	4,358.66
Spruce, Mixed	3.268	3.268	1.66	1.66
White Birch	89.646	89.646	45.39	45.39
Hardwoods, Mixed	197,104.103	197,104.103	100,771.82	210,995.52
SUB-TOTAL	199,481.150	199,481.150	101,980.63	215,401.23
FUELWOOD, MASS-SCALED				
Hardwoods, Mixed	9,760.356	8,726.788	4,532.94	5,783.72
SUB-TOTAL	9,760.356	8,726.788	4,532.94	5,783.72
TOTAL TIMBER CUT IN PROVINCE		18,713,275.007	43,327,015.38	47,151,464.18

Number of District Cutting Licences/Permits issued and included in
the above: 2,619

PRINCIPAL STATISTICS OF ONTARIO'S FOREST INDUSTRY BY SECTOR

Source: Statistics Canada

Sector	Establishments Number	Total Employees Number	Total Salaries & Wages \$000s	Fuel and Electricity \$000s
1978				
Logging	255	9,569	179,797	15,045
Wood Industries	707	21,942	279,260	27,712
Paper and Allied	319	45,209	747,394	228,829
Total	1,281	76,720	1,206,630	271,586
Furniture and Fixtures	527	20,968	250,535	8,299
1979				
Logging	321	9,684	197,276	17,084
Wood Industries	761	22,902	320,144	31,134
Paper and Allied	334	46,172	827,101	252,576
Total	1,416	78,758	1,344,521	300,794
Furniture and Fixtures	618	23,650	307,672	9,856
1980				
Logging	391	9,578	215,652	24,072
Wood Industries	778	21,348	328,793	33,475
Paper & Allied	349	47,861	926,779	279,530
Total	1,518	78,787	1,471,224	337,077
Furniture and Fixtures	607	23,703	340,550	11,254
1981				
Logging	418	9,003	230,052	30,562
Wood Industries	774	20,970	362,998	43,705
Paper & Allied	342	47,381	1,044,810	324,780
Total	1,534	77,354	1,637,860	399,047
Furniture and Fixtures	610	25,856	416,922	15,181
1982				
Logging	418	7,079	193,796	33,320
Wood Industries	794	19,015	334,260	46,144
Paper & Allied	347	43,917	1,078,919	351,385
Total	1,559	70,011	1,606,975	430,849
Furniture and Fixtures	644	23,684	398,558	19,285

Sector	Materials & Supplies \$000s	Value of Shipments \$000s	Total Value Added \$000s
1978			
Logging	244,909	504,960	253,658
Wood Industries	541,657	1,077,962	515,321
Paper and Allied	1,616,288	3,145,697	1,317,821
Total	2,402,854	4,728,619	2,086,800
Furniture and Fixtures	390,909	828,564	437,325
1979			
Logging	306,121	588,598	278,921
Wood Industries	690,807	1,319,647	629,169
Paper and Allied	2,007,803	3,872,205	1,661,591
Total	3,004,731	5,780,450	2,569,681
Furniture and Fixtures	503,463	1,043,909	547,979
1980			
Logging	365,267	668,003	319,883
Wood Industries	712,130	1,275,892	562,631
Paper and Allied	2,368,722	4,598,977	1,992,117
Total	3,446,119	6,542,872	2,874,631
Furniture and Fixtures	606,934	1,224,628	615,070
1981			
Logging	381,431	717,927	327,515
Wood Industries	791,939	1,436,082	619,138
Paper and Allied	2,702,821	5,129,829	2,136,084
Total	3,876,191	7,283,838	3,082,737
Furniture and Fixtures	718,103	1,455,964	755,591
1982			
Logging	346,243	678,892	287,982
Wood Industries	678,066	1,256,366	525,522
Paper & Allied	2,596,915	4,841,076	1,939,371
Total	3,621,224	6,776,334	2,752,875
Furniture and Fixtures	646,963	1,347,435	682,402

Note:

Furniture and Fixtures does not include furniture upholstery, re-upholstery and repair shops.

MINERAL RESOURCES GROUP*

Room W-6341, Main Office Telephone: (416) 965-4271

Executive Co-ordinator.....	J. E. Finlay.....	W-6341.....4271
Secretary.....	Ms. P. Barchuk.....	W-6341.....4271
Communications Planner.....	E. B. Freeman.....	W-4642.....3127

ONTARIO GEOLOGICAL SURVEY

Room 1121, 77 Grenville St., Toronto, Ont. M5S 1B3 Telephone: (416) 965-1283

Director.....	Dr. V. G. Milne.....	R-1121.....1283
Executive Officer.....	G. Fromhold-Treu.....	R-1118.....1283
Regional Liaison Geologist.....	C. R. Kustra.....	R-1119.....5180
Geoscience Research Grant Program	R. B. Watson.....	R-1124.....1546
Exploration Technology Dev. Fund.	R. B. Watson.....	R-1125.....1546
Precambrian Geology Section.....	J. Wood, Chief.....	R-916.....1321
North Archean Group.....	H. Wallace.....	R-901.....1827
Central Archean Group.....	Dr. P. C. Thurston.....	R-924.....1827
South Archean Group.....	N. F. Trowell.....	R-907.....4817
Proterozoic Group.....	Dr. B. O. Dressler.....	R-903.....2326
Engineering & Terrain		
Geology Section.....	Dr. O. L. White, Chief..	R-707.....1182
Paleozoic & Mesozoic Subsection	Dr. P. G. Telford.....	R-706.....1183
Hydrocarbon Energy Res. Program	Dr. P. G. Telford.....	R-706.....1183
Quaternary Geology Subsection..	E. V. Sado.....	R-705.....1183
Aggregate Assessment Office....	S. Szoke.....	M1B-45.....1663
Geophysics/Geochemistry Section	R. B. Barlow, Chief.....	R-708.....1697
Mineral Deposits Section.....	Dr. A. C. Colvine, Chief	R-1026.....4261
Geoservices Section.....	G. E. Soucie, Chief.....	R-915.....5601
Geoscience Data Centre.....	H. A. Groen.....	R-804.....4641
Assessment Files Research.....	R. C. Owen.....	R-819.....6139
Geoscience Information.....	T. Soobrian.....	R-807.....0190
Scientific Review.....	Mrs. G. M. Scott.....	R-718.....7325
Geoscience Laboratories.....	Dr. C. Riddle.....	R-1117.....1337
Mines Library.....	Mrs. N. Thurston.....	R-812.....1352

*See Mining Lands and Prospecting Activities under Lands Administration Branch.

LIST OF FIELD SURVEYS (REGULAR PROGRAM)

Ontario Geological Survey 1983

No.	Location	Leaders
PRECAMBRIAN GEOLOGY SECTION		
1.	Kenora-Cedar Lake Studies.....	G. P. Beakhouse
2.	Long Bay Area, Kenora District.....	G. W. Johns
3.	Dryden Pegmatite Field Mineralization.....	F. W. Breaks
4.	Sturgeon Lake Gold Area.....	P. C. Thurston
5.	Lakehead-Atikokan Compilation Map.....	P. C. Thurston
6.	McComber and Vincent Townships.....	M. W. Carter
7.	Hemlo-Heron Bay Area, Thunder Bay and Algoma Districts.	T. L. Muir
8.	White Lake Area, Thunder Bay District.....	G. M. Siragusa
9.	Josephine Area, Algoma District.....	R. P. Sage
10.	Batchawana Synoptic Project.....	E. C. Grunsky
11.	Kirkland Lake-Larder Lake Synoptic Project.....	L. S. Jensen
12.	Englehart Synoptic Project.....	L. S. Jensen
13.	Bleazard Township.....	J. M. Martins
14.	Kinmount Area, Haliburton, Peterborough & Victoria Counties.....	R. M. Easton
15.	Northern Bancroft-Southern Barry's Bay Area.....	R. H. Thivierge
16.	Sunday Lake Area and Ardoch-Dalhousie Lake-Lavant Area.....	Liba Pauk
ENGINEERING AND TERRAIN GEOLOGY PROGRAMS		
17.	Long Point-Port Burwell Area.....	P. J. Barnett
18.	Algonquin Park, Central Area.....	M. J. Ford
19.	Algonquin Park, Southwest Area and Kawagama Lake Area....	R. S. Geddes
20.	Paleozoic Outliers on the Canadian Shield.....	D. J. Russell
21.	Aggregate Resources Inventory.....	D. W. Scott
GEOPHYSICS/GEOCHEMISTRY PROGRAMS		
22.	Night Hawk Geophysical Test Range Results.....	D. H. Pitcher
23.	Lake Collection Methodology for Geochemical Samples, Wawa Area....	J. A. C. Fortescue
24.	Presentation of Regional Geochemical Data, Southwest Ontario.....	J. A. C. Fortescue
25.	Geochemistry and Mineralogy of Basal Tills, Kirkland Lake Area.....	J. A. C. Fortescue
26.	Geochemical and Quaternary Geology Study, Hemlo Area.....	J. A. C. Fortescue
27.	Acid Lakes Study, Sudbury District.....	J. A. C. Fortescue
28.	Study of Long Cores from Six Lakes, Wawa-Sudbury Area.....	J. A. C. Fortescue

MINERAL DEPOSIT PROGRAMS

29. Macassa Mine, Kirkland Lake.....	M. E. Cherry
30. Kirkland Lake-Larder Lake Break, Central McGarry Township.....	J. V. Hamilton
31. Coniaurum Mine, Tisdale Township.....	D. W. Piroshco
32. Tungsten Mineralization: Hollinger-McIntyre Veins Timmins.....	P. C. Wood
33. Geraldton Gold Camp Re-appraisal.....	A. J. Macdonald
34. Archean Volcanic-Hosted Gold Deposits, Red Lake Area....	A. J. Andrews
35. Flat Lake-Howey Bay Deformation Zone, Red Lake Area....	M. E. Durocher
36. Pipestone Bay-St. Paul Bay Deformation Zone, Red Lake Area.....	M. E. Durocher
37. West Carbonate Zone Cochenour Willans Gold Mine, Red Lake.....	Mary Sanborn
38. Age-dating Applications to Gold Mineralization.....	Soussan Marmont
39. Hemlo Area, Thunder Bay and Algoma Districts.....	G. C. Patterson
40. Gold Deposits, Lake of the Woods Area.....	J. C. Davies
41. Granitoid-Associated Mineralization, Dryden Area.....	M. E. Cherry
42. McLean Lake Area, Banting Township.....	L. Owsjacki
43. Elliot Lake Group Placer Gold Potential, Sudbury Area...	D. G. F. Long
44. Naturally Sorted Sand Sized Materials, Southwestern Ontario.....	Janet Springer
45. Asbestos Fibre Substitutes from Everyday Raw Materials..	Janet Springer
46. Precambrian Dolomite as Refractory Raw Material.....	Janet Springer

LIST OF FIELD SURVEYS (SPECIAL PROGRAM)

Ontario Geological Survey 1983

No.	Location	Leaders
PRECAMBRIAN GEOLOGY PROGRAMS		
1.	Lumby Lake Area (western half).....	M. C. Jackson
2.	Mishewawa Lake Area, Algoma District.....	N. W. D. Massey
3.	Black River-Matheson Area, Cochrane District.....	N. F. Trowell
ENGINEERING AND TERRAIN GEOLOGY PROGRAMS		
4.	Matheson and Lightning River Areas, Cochrane District...	U. J. Vagners
5.	Ottawa-St. Lawrence Lowland, Paleozoic Geology.....	D. A. Williams
6.	Peatland Inventory Project.....	J. L. Riley
7.	Oil Shale Assessment Project.....	M. D. Johnson
8.	Lignite Assessment Project.....	P. G. Telford
9.	Stratigraphic Drilling, Moose River Basin.....	P. G. Telford
GEOPHYSICS/GEOCHEMISTRY PROGRAMS		
10.	Aeromagnetic Gradiometry, Test Surveys and Developments.....	R. B. Barlow
11.	Mineral Resource Appraisal and Geochemical Survey Batchawana Mtn. Area.....	J. A. C. Fortescue
MINERAL DEPOSITS PROGRAMS		
12.	Geraldton Area, Gold Deposits Study.....	M. J. Lavigne Jr.
13.	Beardmore-Geraldton Area, Structural Studies.....	M. M. Kehlenbeck
14.	Beardmore-Geraldton Area, Banded Iron Formation Study.....	P. W. Fralick
15.	Dome and McDonough Townships, Structural Studies.....	P. Berger
16.	Gold Deposits, Lake of the Woods Area.....	J. C. Davies
17.	Quartz-Clast Conglomerate Gold Study, Elliot Lake-Sault Ste. Marie Area.....	W. Meyer
18.	Tudor, Madoc and Elzevir Townships, Talc Study.....	E. P. Dillon
19.	Gold-Arsenopyrite-Quartz Veins of the Flinton Group.....	E. P. Dillon
20.	Eastern Ontario Gold Occurrences Study.....	P. S. Barron
21.	Eastern Ontario Flake Muscovite Potential.....	C. P. Verschuren

GEOSCIENCE RESEARCH GRANT PROGRAM

Summary of projects and allocations in years ending March 31

	1980	1981	1982	1983	1984
Universities	Projects	Projects	Projects	Projects	Projects
Brock.....	-	1	2	1	1
Carleton.....	3	2	1	2	2
Guelph.....	-	-	-	-	-
Lakehead.....	-	1	-	-	-
Laurentian.....	2	3	1	-	-
McMaster.....	1	1	1	1	1
Ottawa.....	2	-	-	-	-
Queen's.....	2	3	1	3	3
Toronto.....	8	10	8	9	9
Waterloo.....	2	2	2	3	3
Western.....	5	5	4	2	2
Windsor.....	2	1	1	1	1
York.....	-	-	-	1	1
Total.....	27	29	21	23	23
	\$475,567	\$536,447	\$418,289	\$500,000	\$500,000

EXPLORATION TECHNOLOGY DEVELOPMENT FUND PROGRAM

Summary of projects and allocations in years ending March 31

Company	Projects Accepted	Projects Accepted	Projects Accepted
	1982	1983	1984
Aerodat Limited.....	-	-	1
Alpha NUCLEAR Company.....	1	1	-
Androtex Ltd.....	-	1	1
C.W. Archibald Limited.....	-	1	-
Barringer Magenta Limited.....	2	-	2
Crone Geophysics Limited.....	1	1	1
Dighem Limited.....	-	1	1
EDA Instruments Incorporated.....	1	-	-
Gem Systems Limited.....	1	1	-
Geonics Limited.....	-	-	1
Geotech Limited.....	1	1	1
G. F. Gleeson & Associates.....	-	-	1
Herz Industries Limited.....	-	1	-
Huntec ('70) Limited.....	-	1	1
IFG Company.....	-	-	1
Lamontagne Geophysics Limited....	1	1	1
McPhar Instruments Corporation...	-	1	1
Morris Magnetics.....	-	-	1
Nuclear Activation Services Limited.....	1	1	1
Paterson, Grant & Watson Limited.	1	1	1
Phoenix Geophysics Limited.....	1	1	1
Questor Surveys Limited.....	2	2	1
RMS Instruments Limited.....	-	-	1
Scintrex Limited.....	1	1	2
Technical Services Laboratories Limited.....	1	-	-
X-Ray Assay Laboratories Limited.	-	-	1
Accepted.....	15	17	22
Grants Paid.....	\$520,000	\$985,000	\$894,267

PUBLICATIONS RELEASED

Ontario Geological Survey

Types of Publication	1978	1979	1980	1981	1982	1983
Preliminary Maps.....	200	183	205	134	143	53
Geoscience Data Inventory Folios.....	-	-	-	-	1	102
Colored Geology Maps.....	12	14	9	21	12	15
N. Ontario Engineering & Terrain Geology Maps.....	-	11	51	31	-	15
Geophysical/Geochemical Maps.....	253	426	34	77	36	1
Aggregate Resource Inventory Papers.....	-	1	21	19	18	8
Guidebooks.....	-	1	-	-	-	1
Mineral Deposit Circulars.....	1	2	-	4	1	-
Miscellaneous Papers.....	6	7	7	8	7	11
Non-Serial Publications.....	2	3	4	7	8	13
N. Ontario Engineering & Terrain Studies	-	-	42	24	-	10
Open File Reports.....	22	22	42	41	32	52
Reports.....	16	11	7	12	10	10
Studies.....	-	1	-	1	3	3

ASSESSMENT FILES RESEARCH OFFICE

Office Operations	1979	1980	1981	1982	1983	1946-83
FILES ADDED						
Technical Surveys and Summaries for Assessment Credit.....	350	453	821	860	1,279	9,977
MEAP.....	50	46	*35	-	-	518
OMEP.....	-	-	-	-	103	103
Ontario Securities Commissions & Misc.	77	150	75	72	67	1,331
Drilling Reports.....	340	310	388	361	204	9,984
Licence of Occupation.....	(a)	(a)	3	3	-	83
OPERATIONS						
Inquiries.....	2,182	2,577	2,567	2,214	2,907	-
Files Examined.....	15,640	17,696	17,769	14,603	21,757	-

* Program discontinued

(a) Uncertain of exact totals

Mineral Resources Group

MINERAL RESOURCES BRANCH

Room W-4626, Main Office Telephone (416) 965-1559

Branch Director.....	Dr. T. P. Mohide.....	W-4626...5-1559
Mineral Statistics Section.....	G. Weatherson, Spvr.....	W-4632...5-0211
Metallic Minerals Section.....	Dr. G. Anders, Spvr.....	W-4625...5-1311
Industrial Minerals Section.....	D. W. Scott, Spvr.....	W-4646...5-1172
Fuel Minerals Section.....	S. Keen, Spvr.....	W-4629...3-1882

ONTARIO MINERAL PRODUCTION IN 1982 AND 1983

1982 figures show final completion of shipments

1983 figures are preliminary

Unit	1982		1983	
	Quantity	Value \$	Quantity	Value \$
METALLIC MINERALS				
Bismuth kg	1,256	7,561	1,000	6,000
Cadmium kg	549,006	1,823,036	834,000	2,551,000
Calcium kg	329,139	2,567,284	399,000	3,306,000
Colbalt kg	966,285	28,258,083	1,324,000	44,941,000
Copper kg	157,848,757	298,008,470	197,036,000	412,140,000
Gold g	20,136,843	306,786,475	21,620,000	362,574,000
Iron Ore tonne	3,650,257	193,445,956	3,664,000	180,519,000
Lead kg	5,696,833	3,815,768	4,786,000	4,007,000
Magnesium kg	7,630,163	27,811,944	5,980,000	21,978,000
Nickel kg	63,955,580	440,631,297	94,621,000	595,165,000
Platinum Gp. kg	7,105	82,253,570	5,195	67,885,000
Selenium kg	25,038	273,915	84,000	844,000
Silver kg	346,974	118,679,990	347,000	157,026,000
Tellurium kg	2,843	93,819	5,000	137,000
Tin kg	19,375	368,266	6,000	104,000
Uranium (U) kg	4,970,327	586,623,297	4,837,000	518,364,000
Zinc kg	260,543,524	257,888,108	282,826,000	325,249,000
Total Value, Metallic		2,349,336,839		2,696,796,000

		1982		1983	
	Unit	Quantity	Value \$	Quantity	Value \$
NON-METALLICS					
Barite	tonne	6,000	1,300,000	N/A	1,000,000
Feldspar	tonne	N/A	N/A	N/A	46,000
Gemstone	kg	72,000	83,589	N/A	N/A
Gypsum	tonne	574,346	5,516,064	889,000	7,950,000
Magnetite	tonne	4,576	51,699	N/A	N/A
Nepheline					
Syenite	tonne	552,838	17,882,193	528,000	15,590,000
Peat	tonne	4,674	886,066	6,000	647,000
Quartz	tonne	264,907	7,758,937	645,000	12,265,000
Salt	tonne	5,461,190	93,200,162	5,059,000	93,180,000
Serpentine					
Filler	tonne	3,067	455,121	N/A	N/A
Soapstone					
Talc, Pyrophyllite	tonne	20,462	3,433,781	N/A	5,127,000
Sulphur in smelter gas	tonne	283,719	15,492,214	438,000	23,227,000
Sulphur					
Elemental	tonne	27,969	2,095,957	25,000	2,216,000
Terazzo Chips	tonne	1,694	110,692	N/A	N/A
Total Value, Non-Metallic			148,266,475		161,245,000
FUELS					
Natural Gas	000 cu.m.	436,354	41,360,466	448,000	48,556,000
Petroleum	000 cu.m.	85,637	14,761,230	85,000	16,552,000
Total Value, Fuels			56,121,696		65,108,000

	Unit	Quantity	1982 Value \$	Quantity	1983 Value \$
STRUCTURAL MATERIALS					
Clay Prod.	-	N/A	51,131,105	N/A	75,430,000
Cement	tonne	3,007,439	185,047,149	2,845,000	229,850,000
Lime	tonne	1,539,642	82,812,542	1,418,000	89,546,000
Sand & Gravel	tonne	53,567,884	116,552,053	54,000,000	123,000,000
Stone	tonne	28,487,598	110,784,867	28,000,000	117,000,000
Total Value Structural Materials			546,327,716	634,826,000	
GRAND TOTAL FOR ONTARIO			3,100,052,726	3,557,975,000	

DIRECT COSTS OF THE MINERAL INDUSTRY IN ONTARIO

Year	Total Employment	Wages & Salaries \$	Fuel & Electricity \$	Process Supplies \$	Total Cost \$
1975	44,329	568,817,097	154,748,157	375,688,838	1,099,254,092
1976	44,585	647,549,765	199,216,913	424,029,472	1,270,796,150
1977	43,782	688,435,301	224,263,043	429,950,598	1,342,648,942
1978	33,234	589,143,142	199,018,565	392,059,456	1,180,221,163
1979	33,860	675,471,862	245,536,846	447,427,618	1,368,436,326
1980	41,252	863,044,670	296,889,343	601,153,558	1,761,087,571
1981	41,522	982,665,625	349,709,968	673,489,373	2,005,864,966
1982*	38,277	948,599,962	306,710,300	494,342,597	1,749,652,859

*40,277 including 2,000 estimate of small sand & gravel and stone industries.

VALUE OF ONTARIO MINERAL OUTPUT BY MNR REGION

MNR Region	1980 \$	1981 \$	1982 \$
Algonquin Region			
Metallic Minerals	54,697,685	57,453,827	43,254,750
Non-metallic Minerals	16,601,372	17,609,906	17,933,892
Structural Materials	10,069,196	7,492,080	6,718,196
Total	81,368,253	82,555,813	67,906,838
Central Region			
Non-metallic Minerals	5,753,434	6,051,925	5,042,818
Natural Gas, Petroleum	995,055	1,165,152	1,128,305
Structural Materials	284,761,165	310,159,188	267,295,017
Total	291,509,654	317,376,265	273,466,140
Eastern Region			
Metallic Minerals	-	-	-
Non-metallic Minerals	771,755	626,327	720,846
Structural Materials	95,298,546	110,245,387	93,413,196
Total	96,070,301	110,871,714	94,134,042
North Central Region			
Metallic Minerals	156,468,788	107,652,059	96,071,087
Non-metallic Minerals	698,156	822,162	1,147,061
Structural Materials	3,975,687	7,457,705	6,999,014
Total	161,142,631	115,931,926	104,217,162

Northern Region			
Metallic Minerals	747,565,752	663,110,786	587,232,675
Non-metallic Minerals	3,752,770	6,529,727	10,041,788
Structural Materials	4,501,871	3,819,641	5,113,479
<hr/>			
Total	755,820,393	673,460,154	602,387,942
<hr/>			
Northeastern Region			
Metallic Minerals	2,435,663,070	2,194,717,693	1,375,065,540
Non-metallic Minerals	17,737,296	22,278,600	16,104,557
Structural Materials	30,563,152	33,717,112	29,082,301
<hr/>			
Total	2,483,963,518	2,250,713,405	1,420,252,398
<hr/>			
Northwestern Region			
Metallic Minerals	414,769,590	296,700,224	247,712,787
Non-Metallic Minerals	885,049	884,781	666,134
Structural Materials	7,429,567	7,466,573	6,822,471
<hr/>			
Total	423,084,206	305,051,578	255,201,392
<hr/>			
Southwestern Region			
Natural Gas, Petroleum	42,273,550	44,503,163	54,993,391
Non-metallic Minerals	72,904,536	83,102,024	96,609,379
Structural Materials	143,629,290	147,306,189	130,884,042
<hr/>			
Total	258,807,376	274,911,376	282,486,812
<hr/>			
ONTARIO TOTAL	4,551,766,332	4,130,872,231	3,100,052,726
<hr/>			

MINERAL RESOURCES GROUP

MINING TAXATION & OMEP OFFICE

Room W-4649, Main Office Telephone (416) 965-1062

Director and Mine Assessor.....	K. S. Rachamalla.....	W-4649.....1062
Assistant Mine Assessors.....	A. Cutrona.....	W-4654.....9955
	R. Gunther.....	W-4654.....9955
	J. Sheehan.....	W-4654.....9955
	A. Stoddart.....	W-4654.....9955
OMEP		
Administrator.....	F. W. Pooley.....	W-4650.....1062
Evaluator.....	R. B. Huggins.....	W-4641.....1062

MINING TAX

Summary of mining tax in years ending March 31

	1981 \$ value millions	1982 \$ value millions	1983 \$ value millions	1984 \$ value millions
Mining Tax Collected.....	160.5	55.4	26.2	31.9
Total value of mineral production assessed.....	2,550.0	1,720.9	2,530.0	940.9
Taxes payable per assessments...	44.5	88.9	96.2	37.2
Total additional tax, interest & penalty.....	1.1	2.2	12.1	1.6
Total refund of taxes (paid in advance).....	0.8	4.8	4.8	0.3
No. of assessments completed....	45	48	48	41

OMEPA DESIGNATED PROGRAMS REGIONAL DISTRIBUTION

in years ending March 31

MNR Regions	No. of Programs			Total Expenditure (\$ million)			% of Total		
	1982	1983	1984	1982	1983	1984	1982	1983	1984
Northern.....	54	66	86	8.6	14.3	34.9	33.1	34.8	34.6
Northwestern.....	21	47	101	5.7	9.5	30.8	21.7	23.1	30.5
Northeastern.....	23	18	61	5.6	4.9	9.8	21.3	11.9	9.7
North Central.....	25	70	127	5.0	10.5	24.1	19.0	25.6	24.0
Algonquin & Eastern	14	12	11	1.3	1.9	1.3	4.9	4.6	1.2
Total	137	213	386	26.2	41.1	100.9	100.0	100.0	100.0

OMEP DESIGNATED PROGRAMS BY COMMODITIES

In years ending March 31

	Total Expenditure (\$ million)				% of Total			
	1981	1982	1983	1984	1981	1982	1983	1984
Gold, Silver.....	29.3	20.3	34.8	94.8	86.3	77.6	84.7	94.0
Base Metals.....	1.2	1.6	1.4	2.4	3.5	6.2	3.4	2.4
Industrial Minerals..	3.0	4.2	2.8	0.1	9.0	16.0	6.8	0.1
Other (uranium, etc.)	.4	.1	2.1	3.6	1.2	.2	5.1	3.5
Total	33.9	26.2	41.1	100.9	100.0	100.0	100.0	100.0

DETAILS OF COMPLETED OMEP PROGRAMS: REGIONAL DISTRIBUTION

In years ending March 31

	No. of Programs		Total Expenses (\$ million)		Eligible Expenses (\$ million)		Grant/Tax Credit (\$ million)		% of Total	
	1983	1984	1983	1984	1983	1984	1983	1984	1983	1984
Northern.....	60	54	11.5	12.1	8.9	8.3	2.2	2.1	47.9	38.3
Northwestern.....	35	47	4.8	8.6	4.0	7.4	1.0	1.8	20.0	27.2
Northeastern.....	19	19	2.6	4.2	2.1	3.5	.5	.9	10.8	13.3
North Central.....	25	52	4.6	6.4	3.3	5.9	.8	1.5	19.2	20.2
Algonquin & Eastern	10	10	.5	.3	.4	.3	.1	.1	2.1	1.0
Total	149	182	24.0	31.6	18.7	25.4	4.6	6.4	100.0	100.0

DETAILS OF COMPLETED OMEP PROGRAMS: ECONOMIC BENEFITS

In years ending March 31

	1981	1982	1983	1984
EMPLOYMENT				
Number Employed.....	430	550	1,600	2,100
Work days.....	13,550	17,710	61,780	83,170
WAGES (\$ million).....	\$1.1	\$1.7	\$6.6	\$8.1
GOODS & SERVICES (\$ million).. <td>\$5.0</td> <td>\$5.6</td> <td>\$17.4</td> <td>\$23.5</td>	\$5.0	\$5.6	\$17.4	\$23.5
DIAMOND DRILLING (metres).....	50,450	37,400	133,550	142,690

OUTDOOR RECREATION GROUP

Room W-2340, Main Office Telephone (416) 965-5661

Executive Co-ordinator.....	T. J. Millard.....	W-2341...5-5661
Secretary.....	N. Ball.....	W-2340...5-5661
Enforcement Specialist.....	W. D. Gartley.....	W-2342...5-5661
Librarian.....	S. Louet.....	W-4540...5-6319
Provincial Parks Council		
Chairman.....	F. Gray.....	(416) 368-8305 Ex.2574

WILDLIFE BRANCH

Room W-2320, Main Office Telephone (416) 965-4252

Branch Director.....		W-2327.....4254
Wildlife Planning Co-ordinator...	W. L. Sleeth.....	W-2307.....7641
Program Development & Audit		
Section.....	D. A. Hagan, Spvr.....	W-2321.....4252
Habitat Development.....	D. M. Hogg.....	W-2309.....7641
Moose/Caribou Program.....	R. A. Stefanski.....	W-2331.....4252
Upland Game/Waterfowl Program..	J. L. Harcus.....	W-2332.....4252
Deer/Bear Program.....	H. Smith.....	W-2323.....4252
Non-game Program.....	I.E. Bowman.....	W-2330.....4252
Wetland Habitat Co-ordination..	V. A. Glooschenko.....	W-2322.....7641
Extension Development Section....	L. Whistance-Smith, Spvr.	W-2326.....4252
Wildlife Information.....	H. D. Jenkins.....	W-2320.....4252
Wildlife Services Section.....	M. C. Smith, Spvr.....	W-2328.....4252
Commercial Wildlife Program....	M. Novak.....	W-2423.....3345
Hunter Education.....	W. M. McKittrick.....	W-2306.....7641
Legal Services.....	M. Chromec.....	W-2329.....4252
Data System.....	J. M. Barbowski.....	W-2304.....7641

Box 50, Maple, Ont. L0J 1E0 Telephone (416) 832-2761

Wildlife Research Section.....	C. D. MacInnes, Spvr....	Extension...241
Population Dynamics.....	D. J. Hussell.....	Extension...241
Bio-Electronic Scientist.....	Vacant.....	Extension...241
Field Studies Scientist.....	D. R. Voigt.....	Extension...241
Rabies Unit Leader.....	D. H. Johnston.....	Extension...241
Upland Game/Waterfowl Scientist	H. G. Lumsden.....	Extension...241
Predator Scientist.....	G. B. Kolenosky.....	Extension...241
Disease/Parasites Scientist....	E. M. Addison.....	Extension...241

HUNTING STATISTICS - Estimates compiled from hunters surveyed by mail

Comparison between hunter numbers and licence sales gives an estimate of the number of licence holders who did not hunt

Year	RESIDENT			NON-RESIDENT		
	Hunters	Hunter Days	Harvest	Hunters	Hunter Days	Harvest
MOOSE						
1978	79,210	542,000	10,630	6,970	52,100	1,320
1979	70,770	529,400	10,110	7,220	54,600	1,580
1980	71,670	426,700	7,670	3,930	25,200	690
1981	66,850	405,500	7,630	3,110	19,400	460
1982	85,630	508,100	10,150	3,060	19,200	550
DEER						
1978	87,950	450,100	13,490	2,860	14,600	*480
1979	78,440	415,800	13,200	1,560	8,700	*370
1980	80,280	443,200	9,150	780	4,400	110
1981	84,590	469,500	10,610	590	3,000	70
1982	91,750	500,300	11,870	560	2,900	90
SMALL GAME **						
1974-75	225,840	3,299,000		7,380	52,100	
1976-77	242,310	3,388,000		8,530	62,300	
1978-79	226,693	2,975,400		8,724	55,100	
1979-80	214,550	2,829,600		10,520	65,700	
1980-81	220,020	2,781,300		11,170	76,100	

TOTALS			
Year	Hunters	Hunter Days	Harvest
MOOSE			
1978	86,180	594,100	11,950
1979	77,990	584,000	11,690
1980	75,600	451,900	8,360
1981	69,960	429,900	8,090
1982	88,690	527,300	10,700
DEER			
1978	90,810	464,700	*13,970
1979	80,000	424,500	*13,570
1980	81,060	447,600	9,260
1981	85,180	472,500	10,680
1982	92,310	503,200	11,960

* Includes deer harvested on moose licences.

** Includes waterfowl.

EXPENDITURE BY HUNTERS - (Excluding Licence Fees)

Survey Year*	Hunt	Estimates compiled from Hunters Surveyed by Mail		
		Resident	Non-Resident	Total
1976-77	Moose	17,821,000	3,192,000	21,013,000
1976-77	Deer	12,000,000	809,000	12,809,000
1976-77	Small Game	53,561,000	3,252,000	56,813,000
1978-79	Small Game	47,634,000	3,278,431	50,912,431
1979-80	Moose	22,833,000	3,803,000	26,636,000
1979-80	Deer	14,892,000	548,000	15,440,000
1979-80	Small Game	47,162,000	4,413,000	51,575,000
1980-81	Moose	21,334,000	2,302,000	23,636,000
1980-81	Deer	15,887,000	297,000	16,184,000
1980-81	Small Game	50,000,000	4,563,000	54,563,000
1981-82	Moose	23,576,000	1,929,000	25,505,000
1981-82	Deer	18,163,000	229,000	18,392,000
1982-83	Moose	28,900,000	1,889,000	30,789,000
1982-83	Deer	20,306,000	240,000	20,546,000

HUNTING LICENCES SOLD

Year	DEER		MOOSE		BEAR	
	Resident	Non-Res.	Resident	Non-Res.	Resident	Non-Res.
1979-80	85,921	1,762	77,937	7,378	2,666	11,247
1980-81	87,985	823	79,688	4,011	9,064	11,682
1981-82	91,695	630	73,851	3,214	13,736	13,341
1982-83	101,712	570	92,393	3,111	13,817	14,639
1983-84	112,318	535	75,650	2,148	15,464	16,109

Year	SMALL GAME		TOTAL		Total
	Resident	Non-Res.	Resident	Non-Res.	
1979-80	353,077*	11,527	519,601	31,914	551,515
1980-81	383,091*	12,783	559,828	29,299	589,127
1981-82	368,770*	12,492	550,924	29,677	580,601
1982-83	349,481	11,202	557,403	29,522	586,925
1983-84	332,328	10,844	535,760	29,636	565,396

* Includes summer hunting tag.

FUR HARVESTS

in years ending June 30

Average Pelt value, 1980 \$		Totals from Sealing Officers' Reports and Fur Dealers' Returns				
		1977	1978	1979	1980	1981
34.36	Beaver	136,856	147,556	170,644	209,135	181,383
30.20	Mink	14,856	20,557	21,704	27,377	29,944
26.63	Marten	20,768	38,878	52,169	45,861	45,305
60.87	Otter	7,835	8,592	9,943	11,112	10,952
141.55	Fisher	2,165	2,693	3,300	4,457	4,013
267.71	Lynx	1,151	1,722	1,873	2,485	2,361
126.37	Bobcat	24	16	30	33	21
7.48	Muskrat	435,290	433,163	526,890	605,966	554,894
29.67	Raccoon	44,223	93,178	105,263	116,249	108,164
1.35	Squirrel	5,817	4,180	7,645	16,922	15,836
.89	Weasel	3,576	3,685	5,694	6,100	7,187
71.29	Coloured Fox	10,131	15,979	19,282	18,854	15,548
29.79	Arctic Fox	101	199	164	176	163
89.33	Timber Wolf	285	431	381	342	748
54.47	Coyote	2,276	4,394	3,218	3,819	2,646
52.31	Black Bear	283	284	511	818	482
185.36	Wolverine	---	11	8	9	9
3.05	Skunk	98	210	453	662	438
45.17	Grey Fox	---	1	3	1	6
488.33	Polar Bear	17	24	21	20	27
Total Pelts		685,752	775,753	929,196	1,070,398	980,127
Total Value		7,998,708	11,284,007	20,234,367	24,407,054	18,965,648

TRAPPER LICENCES, 1981

Registered.....	3,123 @ \$5 = \$15,615
Resident.....	9,991 @ \$5 = \$49,955
Farmer, Indian Reservations.....	1,612 @ \$0 = ---
Registered Treaty.....	3,315 @ \$1 = \$ 3,315
Resident Treaty.....	25 @ \$5 = \$ 125
Totals.....	18,071 \$69,010
Raccoon Hunters.....	3,231 @ \$5 = \$16,155

HUNTER EDUCATION PROGRAM

Training began in 1957. It became mandatory for new hunters in 1960, and for new hunters under the age of 20 years in 1968.

Year	ACTIVE INSTRUCTORS at Dec. 31	STUDENTS TRAINED Yearly	To Date	HUNTING ACCIDENTS		
				Non-Fatal	Fatal	Total
1977	1,011	32,126	452,298	67	4	71
1978	879	38,500	490,798	60	8	68
1979	1,110	35,080	525,878	46	5	51
1980	1,320	38,730	564,608	56	6	62
1981	1,406	39,625	604,233	33	3	36

Total royalties collected in the 1980-81 season were \$1,115,412.

29 PROVINCIAL WILDLIFE AREAS

	Hectares
<hr/>	
Aylmer Provincial Wildlife Area	150
Brighton Provincial Wildlife Area	388
Bruce Recreation Area	3,925
Camden Lake Wildlife Management Area	1,052
Darlington Provincial Park	111
Fingal Provincial Wildlife Area	293
Gananoque Provincial Wildlife Area	580
Holiday Beach Provincial Park	198
Holland Marsh Provincial Wildlife Area	573
Hoople Creek Provincial Wildlife Area	105
Hullett Provincial Wildlife Area	2,794
Kolapore Uplands Recreational Area	4,209
Long Point Provincial Wildlife Area	500
Luther Marsh Wildlife Area	5,666
Matchedash Bay Provincial Wildlife Area	225
Mountain Provincial Wildlife Area	1,457
Nonquon River Wildlife Area	1,133
Point Petre Provincial Wildlife Area	1,276
Presqu'ile Provincial Park	931
Puslinch Crown Resource Management Area	138
Rankin Wildlife Management Area	3,800
Rondeau Provincial Park	4,654
St. Edmunds Provincial Wildlife Area	6,799
Scugog Island	182
Sibbald Point Provincial Park	225
Stag Island Wildlife Management Area	17
Tiny Marsh Provincial Wildlife Area	931
Wye Marsh Provincial Wildlife Area	919

13 WILDLIFE EXTENSION
LANDOWNER AGREEMENT AREAS

	Hectare
<hr/>	
Aylmer Ponds	43
Beverly Swamp	430
Binbrook	401
Calton Swamp	96
Christie	340
Crooks Hollow	17
Hawk Cliff	34
Lake St. Lawrence	6,070
Mud Lake	61
Orangeville Reservoir	316
Valens	223
Waterford Lakes	290
Willoughby Marsh	227

ENFORCEMENT STATISTICS 1983-84

District or Region	No. of Field Conservation Officers	No. of Deputy Conservation Officers	No. of Contacts by Conservation Officers	No. of F & W Warnings	No. of F & W Charges
Algonquin	29	74	32,395	1,924	759
Central	29	76	59,799	3,015	930
Eastern	42	40	47,550	852	811
Southwestern	29.5	56	38,665	2,506	1,064
North Central	21	21	35,492	1,158	717
Northeastern	34	34	48,736	1,263	957
Northern	26	35	31,279	933	756
Northwestern	25	15	51,112	1,429	906
Total	235.5	351	345,028	13,080	6,900

District or Region	No. of Other Charges	Total Amt. of F & W Fines	Total Amt. of Other Fines	Total Amt. of Fines
Algonquin	785	49,322	28,872	78,194
Central	916	85,126	49,530	134,476
Western	74	44,598	1,120	45,718
Southwestern	1,996	72,176	103,658	175,834
North Central	254	47,790	8,971	56,761
Northeastern	151	73,893	6,420	80,313
Northern	104	50,789	4,182	54,970
Northwestern	57	76,497	3,502	77,999
Total	4,337	500,191	206,255	704,266

District or Region	Total Number F & W Convictions	Total No. of Cases Pending	Total Other Convictions
Algonquin	742	17	700
Central	961	12	916
Eastern	740	16	243
Southwestern	822	135	1,278
North Central	478	18	202
Northeastern	883	-	145
Northern	666	3	70
Northwestern	817	64	-
Total	6,109	265	3,554

Outdoor Recreation Group

PARKS AND RECREATIONAL AREAS
BRANCH

Room W-3329, Main Office Telephone (416) 965-5160

Branch Director.....	N. R. Richards.....	W-3329.....5160
Policy Co-ordinator.....	F. L. Bishop (actg).....	W-3328.....2745
Secretary.....	Ms. S. D. Hellman.....	W-3328.....5160
Planning Manager.....	G. D. Boggs.....	W-3301.....3981
Planning Secretary.....	Mrs. E. Mason.....	W-3301.....3981
Sr. Planner, Parks & Heritage Res.....	M. Garscadden.....	W-3301.....3981
Recreational Areas Planner.....	R. Phillips.....	W-3301.....3981
Earth Sciences Planner.....	R. J. Davidson.....	W-3301.....3981
Life Sciences Planner.....	T. J. Beechey.....	W-3301.....3981
Operations Manager.....	E. E. Murphy.....	W-3342.....1245
Operations Secretary.....	Mrs. J. Miller.....	W-3340.....1245
Operations Stenographer.....	Ms. R. Coombs.....	W-3301.....1245
Parks Technician.....	B. Huis.....	W-3346.....1245
Park Operations Specialist.....	B. van Staalduinen.....	W-3343.....1245
Visitor Services Specialist.....	G. Forma (actg).....	W-3347.....1245
Visitor Services Officer.....	Ms. S. MacFeeters.....	W-3348.....1245
Parks and Recreational Areas Technician.....	P. Mooradian.....	W-3345.....1245
Extension Specialist.....	F. Bishop.....	W-3329.....1245
Sr. Planner, Research.....	D. Hallman.....	W-3344.....1245
Planning Technician.....	R. Speck.....	W-3352.....1245
Mgmt. Information Specialist...	D. Driscoll.....	W-3351.....1245
Mgmt. Information Clerk.....	Ms. D. Gluzdziecka.....	W-3353.....1245
Development Manager.....	K. G. McCleary.....	W-3326.....2745
Development Secretary.....	Mrs. G. Shaw.....	W-3326.....2745
Development Clerk.....	Ms. P. A. Naylor.....	W-3330.....2745
Development Typist.....	Mrs. R. Watkins.....	W-3320.....2745
Senior Landscape Architect.....	G. Pittenger.....	W-3330.....2745
Landscape Architect.....	J. Huang.....	W-3330.....2745
Development Engineer.....	R. H. Lockwood.....	W-3324.....2745
Design Engineer.....	I. Johnson.....	W-3322.....2745
Environmental Sanitation Co-ordinator.....	S. Cowan.....	W-3327.....2745
Draftsperson.....	Ms. M. Lehoczky.....	W-3330.....2745
Architectural Designer.....	H. Miles.....	W-3320.....2745
Sanitary Engineer.....	J. Kolodziej.....	W-3323.....2745
Electrical Designer.....	J. Konya.....	W-3320.....2745
Architectural Designer.....	A. Chappelle.....	W-3320.....2745
Mechanical Designer.....	G. Szeplewicz.....	W-3320.....2745

PUBLIC USE OF PROVINCIAL PARKS

Year	Interior Campers	Campers	Average Days	Camper Nights	Total of Visitors
1979	73,961	1,355,733	2.4	3,259,752	*5,161,563
1980	76,136	1,319,762	2.4	3,195,477	5,210,712
1981	74,199	1,321,494	2.5	3,283,299	**5,948,528
1982	80,550	1,267,974	2.6	3,287,603	6,250,777
1983	85,131	***1,354,019	2.7	****3,618,821	+7,647,287

VISITOR SERVICES PROGRAM ATTENDANCE

Organized Events/Activities

Year	Parks	Guided Tours	Personal Services Evening Programs	Film Programs	School Programs	Children's Programs	Special Events	Other
1982	67	30,604	82,693	60,131	22,328	14,105	76,618	81,515
1983	67	39,137	107,360	97,317	26,695	13,505	77,438	52,873

Indoor Facilities

Outdoor Self-Use Facilities

Indoor Displays Museums	Activity Center	Other	Open Air Displays/ Exhibits	Interpretive Trails	Other Trails	Other
320,551	95,812	46,329	153,614	319,657	103,999	34,452
268,698	97,796	58,857	160,622	332,953	109,693	54,747

PUBLICATIONS

Priced	Other	Free
74,635	563	1,021,380
96,360	2,569	1,250,759

Total Visitor Services Program Attendance: ++1,442,408
1,497,691

GROWTH OF PROVINCIAL PARKS

areas in hectares

Year	Camping			Reserve Areas		Provincial Parks ha
	Parks	Units	No.	ha	No.	
1979	97	20,723	134	920,558	128	4,255,375
1980	97	20,723	101	949,726	131	4,257,266
			37	+++18,167		
1981	97	20,757	101	949,726	131	4,252,960
			37	18,167		
1982	97	20,393	97	944,337	133	4,258,632
			37	18,167		
1983	98	20,526	145	++++790,572	138	5,476,369

* Visitation calculated from permit sales only.

** Includes free day-use visitors.

*** Includes Interior Campers.

**** Includes Interior Camper Nights.

+ Total visitation calculated from permit sales + free day-use visitation + interior visitation + includes traffic count visitation for Wasaga Beach Provincial Park.

++ Publications - not included.

+++ Any area acquired by MNR for recreational or other purposes but not intended for designation as a provincial park.

++++ Recommended provincial parks area.

138 PROVINCIAL PARKS IN REGULATION IN 1983

Region, District Provincial Park	Area in Hectares	Developed Campsites	Campers	Camper Nights
NORTHWESTERN REGION				
RED LAKE				
Opasquia	473,000	-	-	-
Pakwash	631	60	1,337	2,684
Woodland Caribou	450,000	-	-	-
KENORA				
Rushing River	190	192	18,730	45,864
Sioux Narrows	129	71	5,009	9,344
FORT FRANCES				
Caliper Lake	134	92	5,986	11,453
Lake of the Woods	1,097	100	4,489	11,955
DRYDEN				
Aaron	117	98	4,667	6,221
Blue Lake	354	188	17,694	35,443
SIOUX LOOKOUT				
Ojibway	2,630	50	3,052	4,859
IGNACE				
Sandbar Lake	3,157	75	5,958	9,264
Total, 11 Parks	931,439	926	66,922	137,087

NORTH CENTRAL REGION

Region, District Provincial Park	Area in Hectares	Developed Campsites	Campers	Camper Nights
ATIKOKAN				
Quetico (Dawson Trail)	475,819	133	4,314	9,001
Quetico Interior	-	-	18,248	112,161
THUNDER BAY				
Arrow Lake	40	-	-	-
Inwood	33	85	4,144	4,316
Kakabeka Falls	420	166	23,182	32,830
Middle Falls	4	25	1,807	2,044
Sibley	24,435	200	12,846	27,926
NIPIGON				
Lake Nipigon	1,458	85	3,090	4,606
Wabakimi	155,000	-	-	-
GERALDTON				
Klotz Lake	119	30	892	1,183
MacLeod	74	85	4,038	12,330
TERRACE BAY				
Neys	3,445	146	13,995	19,469
Rainbow Falls	575	225	13,811	17,698
Total, 12 Parks	661,422	1,180	100,367	243,564

Region, District Provincial Park	Area in Hectares	Developed Campsites	Campers	Camper Nights
NORTHERN REGION				
HEARST				
Fushimi Lake	5,294	45	3,540	12,783
Nagagamisis	8,131	165	3,101	12,039
MOOSONEE				
Polar Bear	2,408,700	-	-	-
Tidewater	980	30	1,111	1,111
KAPUSKASING				
Rene Brunelle	2,964	122	4,224	12,114
COCHRANE				
Greenwater	5,350	104	3,049	6,891
Kesagami	54,200	-	-	-
TIMMINS				
Kettle Lakes	1,261	165	7,727	25,151
KIRKLAND LAKE				
Esker Lakes	3,237	136	3,480	10,678
Kap-Kig-Iwan	292	64	3,140	5,482
CHAPLEAU				
Five Mile Lake	456	45	1,597	2,563
Ivanhoe Lake	1,589	149	5,170	13,618
Missinaibi Lake	44,061	36	1,875	7,576
The Shoals	11,198	46	2,237	4,873
Wakami Lake	8,806	65	2,772	11,860
Total, 15 Parks	2,556,519	1,172	43,023	126,739

Region, District Provincial Park	Area in Hectares	Developed Campsites	Campers	Camper Nights
NORTHEASTERN REGION				
WAWA				
Lake Superior	155,659	282	25,473	34,802
Lake Superior Interior	-	-	5,084	11,815
Michipicoten	289	-	-	-
Obatanga	9,409	132	9,067	14,621
White Lake	1,726	187	15,607	24,973
SAULT STE. MARIE				
Batchawana	169	-	-	-
Pancake Bay	466	338	25,912	43,720
BLIND RIVER				
Mississagi	2,883	100	3,209	9,384
ESPANOLA				
Chutes	108	130	15,856	21,937
SUNBURY				
Fairbank	105	160	6,647	19,737
Halfway Lake	4,730	215	14,768	45,954
Killarney	48,500	122	9,213	24,710
Killarney Interior	-	-	4,343	15,082
Mashkinonje	940	-	-	-
Windy Lake	118	83	4,078	11,971
TEMAGAMI				
Finlayson Point	37	114	5,147	14,089
Lady Evelyn Smoothwater	72,400	-	-	-
NORTH BAY				
Antoine	12	30	126	441
Marten River	400	216	8,274	22,038
Restoule	662	278	6,626	29,383
Samuel de Champlain	2,349	216	7,796	18,477
Total, 19 Parks	300,962	2,603	167,226	363,134

Region, District Provincial Park	Area in Hectares	Developed Campsites	Campers	Camper Nights
ALGONQUIN REGION				
PARRY SOUND				
Grundy Lake	2,554	520	18,447	54,910
Killbear	1,756	883	38,642	182,485
Oastler Lake	32	145	10,828	32,088
Sturgeon Bay	14	82	4,579	13,862
BRACEBRIDGE				
Arrowhead	963	389	29,989	72,008
Mikisew	131	265	12,675	28,694
BANCROFT				
Lake St. Peter	25	62	3,843	7,661
Petroglyphs	1,555	-	-	-
Silent Lake	844	167	11,399	26,742
ALGONQUIN PARK				
Algonquin	765,345	1,375	76,245	216,137
Algonquin Interior	-	-	56,552	185,474
Driftwood	265	77	4,371	8,061
PEMBROKE				
Bonnechere	113	113	4,892	17,630
Carson Lake	13	43	2,423	3,764
Total, 13 Parks	773,610	4,121	274,885	849,516

Region, District Provincial Park	Area in Hectares	Developed Campsites	Campers	Campers Nights
EASTERN REGION				
CARLETON PLACE				
Fitzroy	185	249	14,651	28,787
Murphys Point	1,240	182	10,183	25,355
Rideau River	98	185	12,523	22,676
Silver Lake	43	148	11,313	23,846
CORNWALL				
Carillon	1,417	416	15,699	36,307
South Nation	5	-	-	-
BROCKVILLE				
Charleston Lake	902	243	20,280	47,146
TWEED				
Bon Echo	6,644	530	28,703	97,542
Sharbot Lake	69	185	9,023	24,222
NAPANEE				
Ferris	198	163	4,039	7,730
Frontenac - Interior	5,130	40	904	1,740
Lake on the Mountain	104	-	-	-
North Beach	89	-	-	-
Presqu'ile	937	393	30,461	86,683
Sandbanks	1,507	411	34,368	113,233
Total, 15 Parks	18,568	3,145	192,147	515,267

Region, District Provincial Park	Area in Hectares	Developed Campsites	Campers	Camper Nights
CENTRAL REGION				
LINDSAY				
Balsam Lake	449	483	27,513	78,008
Darlington	209	350	28,677	57,856
Emily	83	299	17,827	51,756
Mark S. Burnham	39	-	-	-
Serpent Mounds	135	113	11,747	36,432
HURONIA				
Awenda	1,792	200	14,186	37,000
Bass Lake	39	92	11,858	27,624
Devil's Glen	6	45	2,813	4,246
Earl Rowe	312	555	27,100	68,538
Mara	45	106	6,597	20,542
McRae Point	138	205	12,830	39,011
Six Mile Lake	94	192	17,924	45,195
Springwater	47	-	-	-
Wasaga Beach	1,545	-	-	-
MAPLE				
Sibbald Point	226	648	34,958	97,932
CAMBRIDGE				
Bronte Creek	640	-	-	-
NIAGARA				
Rock Point	187	126	8,671	20,508
Total, 17 Parks	5,986	3,414	222,701	584,648

Region, District Provincial Park	Area in Hectares	Developed Campsites	Campers	Camper Nights
SOUTHWESTERN REGION				
Pakwash SIMCOE				
Long Point	141	270	19,681	71,135
Selkirk	73	145	6,010	20,175
Turkey Point	350	365	10,850	27,440
AYLMER				
Iroquois Beach	227	232	14,160	47,127
John E. Pearce	68	-	-	-
Port Bruce	5	-	-	-
CHATHAM				
Holiday Beach	92	46	3,394	8,411
Ipperwash	56	266	14,981	65,017
Peche Island	153	-	-	-
Pinery	2,542	1,080	93,089	249,679
Rondeau	4,816	226	18,728	55,556
Wheatley	241	210	14,176	33,372
WINGHAM				
Point Farms	308	199	15,955	41,416
OWEN SOUND				
Craigleith	66	172	18,888	40,458
Cyprus Lake	669	242	27,302	55,338
Fathom Five	9,976	-	-	-
Inverhuron	289	-	-	-
MacGregor Point	1,001	360	16,659	47,644
Sauble Falls	20	152	12,875	36,098
Total, 19 Parks	21,093	3,965	286,748	798,866
WATERWAY PARKS				
Chapleau-Nemegosenda River	8,159	(Chapleau)	-	-
Mattawa River	3,258	(North Bay)	-	-
Mississagi River	19,814	(Blind River, Espanola, Chapleau)	-	-
Winisk River	173,530	(Geraldton)	-	-
Total, 4 Parks	204,761	-	-	-

NATURE RESERVE PARKS

Cavern Lake	189	(Thunder Bay)	-	-
East Sister Island	53	(Chatham)	-	-
Gibson River	168	(Huronía)	-	-
Limestone Island	450	(Parry Sound)	-	-
Matawatchan	65	(Pembroke)	-	-
Montreal River	44	(Sault Ste. Marie)-	-	-
Ojibway Prairie	65	(Chatham)	-	-
Quimet Canyon	777	(Thunder Bay)	-	-
Peter's Woods	34	(Lindsay)	-	-
Schreiber Channel	13	(Thunder Bay)	-	-
Porphyry Island	107	(Thunder Bay)	-	-
Trillium Woods	10	(Aylmer)	-	-
Waubashene Beaches	34	(Huronía)	-	-
<hr/>				
Total, 13 Parks	2,009	-	-	-
<hr/>				
Total, 138 Parks	5,476,369	20,526	1,354,019	3,618,821
<hr/>				

*145 RECOMMENDED PROVINCIAL PARKS - 1983
as per Backgrounder - District Land Use Guidelines

Region, District Recommended Provincial Parks	Area in Hectares
NORTHWESTERN REGION	
RED LAKE	
Pakwash Addition	2,070
Trout Lake	7,850
SIOUX LOOKOUT	
Albany River	65,360
Fawn River	4,700
Minnitaki Kames	4,340
Otoskwin - Attawapiskat River	72,890
Pipestone River North	53,250
Pipestone River South	25,720
Severn River	93,700
Windigo Point	380
KENORA	
Lake of the Woods Extension	9,920
FORT FRANCES	
Agassiz Peatlands (Blue Township)	1,600
Cranberry Lake (Gameland)	2,200
Spruce Island (Nelles Township)	800
Sable Island	1,800
Sandpoint Island	890
IGNACE	
Bonheur	710
Brightsand River	28,040
White Otter L. Turtle R.	29,100
DRYDEN	
Butler Lake	3,290
Gold Rock	710
Lola Lake	6,350
Winnange Lake	4,550
Total, 23 Parks	420,220

Region, District Recommended Provincial Parks	Area in Hectares
NORTH CENTRAL REGION	
NIPIGON	
Albert Lake Mesa	110
Kabitotikwia River	1,970
Kama Hill	1
Livingstone Point	1,600
Pantagrue Creek	2,200
Puff Island	2
Sedgman Lake	5,800
Shesheeb Bay	9
West Bay	1,140
Windigo Bay	8,300
THUNDER BAY	
Arrow Lake	450
Arrowhead Peninsula	490
Devon Road Mesa	90
Edward Island	530
Fraleigh Lake	870
Kaiashk	230
Kashabowie	2,060
Kopka River	11,000
La Verendrye River (Pigeon P. Clay Plain)	4,390
Little Greenwater Lake	220
Matawin River	2,650
Middle Falls Extension	970
Le Pate (Pie Island Mesa)	50
Silver Falls	2,410
Thompson Island	170
Divide Ridge (Whitefish Lake E.)	190
Castle Creek (Whitefish Lake W.)	1,150
TERRACE BAY	
Craig's Pit	480
Gravel River	790
Prairie River Mouth	290
Red Sucker Point	380
Slate Islands	3,960
Steel River	9,570
GERALDTON	
Little Current River	9,830
Total, 34 Parks	74,352

Region, District Recommended Provincial Parks	Area in Hectares
NORTHERN REGION	
KIRKLAND LAKE	
Pushkin Hills (Ben Nevis Twp.)	1
Larder River	3,630
Thackery	90
COCHRANE	
North Driftwood River (Beniah Twp.)	1
Williams Island/Long Rapids (Hobson Twp.)	6
Little Abitibi River (including Pierre Montreuil)	20,290
De Troyes (Long Point)	2,550
Sextant Rapids (Pitt Twp.)	2
Coral Rapids/Long Rapids (Valentine Twp.)	6
Shallow River (Wilkie Twp.)	1
CHAPLEAU	
Biscotasing	1,150
Missinaibi (inc. Missinaibi Lake/River)	86,450
Nemegosenda Lake (Pattinson Twp.)	4
Shoals Alteration	10,160
TIMMINS	
Dana - Jowsey	2,550
Fredrick House Lake	4
GOGOMA	
La Motte Lake	510
HEARST	
Nagagami Lake	1,480
KAPUSKASING	
Adam Creek (Sanborn Twp.)	50
Total, 19 Parks	128,935

Region, District Recommended Provincial Parks	Area in Hectares
NORTHEASTERN REGION	
BLIND RIVER	
Aubrey Falls	4,710
Mississagi Delta	2,180
Mississagi Extension	1,840
SUDBURY	
French River	43,800
Sturgeon River	2,240
Wanapitei	2,790
NORTH BAY	
Great Manitou Island	80
Restoule Extension	470
Samuel de Champlain Extension	200
South Bay	1,610
ESPANOLA	
La Cloche	6,400
Misery Bay	697
TEMAGAMI	
Makobe - Gray's River	2,990
W. J. B. Greenwood	430
WAWA	
Michipicoten Island	18,360
Potholes	350
Total, 16 Parks	89,147

Region, District Recommended Provincial Parks	Area in Hectares
ALGONQUIN REGION	
PARRY SOUND	
Blackstone Harbour	12,250
O'Donnell Point	790
Round Lake	4,620
BRACEBRIDGE	
Bauer Property	170
Bigwind	1,880
Chetwynd	520
Dividing Lake	310
Hardy Lake	1,590
Oxtongue River - Ragged Falls	650
BANCROFT	
Egan Chutes	320
Kawartha Highlands	1,880
Lowrie Lakes	230
Opeongo River	520
Upper Madawaska River	750
PEMBROKE	
Bell Bay	1,630
Bonnechere River	570
Centennial Lake	3,830
Foy Property	120
Lower Madawaska River	1,770
MacKenzie Lake Addition	1,530
Ottawa River	450
Westmeath	3,530
MINDEN	
MacRae Addition	6,150
Total, 23 Parks	46,060

District, Region Recommended Provincial Parks	Area in Hectares
EASTERN REGION	
BROCKVILLE	
Otter Lake to Charleston Lake (J. Auld)	3,810
TWEED	
Stoco Fen	40
NAPANEE	
Timber Island	40
Total, 3 Parks	3,890
CENTRAL REGION	
LINDSAY	
Harris Island	190
Indian Point	860
Quackenbush	40
Wolf Island	330
HURONIA	
Boyne Valley	930
Giant's Tomb	520
Lavender Falls	390
Mono Cliffs	770
Scott's Falls	410
MAPLE	
Credit Forks	310
Duclos Point	100
NIAGARA	
James N. Allen	280
Short Hills	710
Total, 13 Parks	5,840

Region, District Recommended Provincial Parks	Area in Hectares
SOUTHWESTERN REGION	
AYLMER	
Komoka	500
CHATHAM	
Fish Point	110
Lighthouse Point	100
OWEN SOUND	
Bayview Escarpment	750
Black Creek	770
Cabot Head	8,220
Duncan Crevice Caves	8
Hope Bay Forest	1,420
Ira Lake	460
Johnston Harbour/Pine Tree Point	4,300
Lion's Head	1,830
Little Cove	1,030
Pretty River Valley	930
Smokey Head/White Bluff	1,700
Total, 14 Parks	22,128
TOTAL, 145 Recommended Provincial Parks	790,572

* Recommended parks will be phased into the Provincial Parks system in the near future.

Outdoor Recreation Group

FISHERIES BRANCH

Room W-2354, Main Office Telephone (416) 965-7883

Branch Director.....	A. S. Holder.....	W-2347.....5947
Client Services Section.....	C. A. Haxell, Mgr.....	W-2349.....7885
Extension Specialist.....	A. A. Wainio.....	W-2353.....7885
Data Systems Biologist.....	W. G. Simpson.....	W-2446.....7885
Economist.....	N. Bedi.....	W-2344.....7885
Commercial Development Co-ord..	J. C. Tilt.....	W-2455.....7885
Fish Culture Section.....	J. M. Byrne, Spvr.....	W-2448.....7886
Production Biologist.....	J. H. Hynes.....	W-2449.....7886
Fish Health Biologist.....	A. Sippel.....	W-2453.....7886
Fish Nutrition Specialist.....	C. Y. Cho..... (519) 824-4120	2212
Fish Requirements Biologist....	B. Potter.....	W-2450.....7886
Fish Culture Operation Co-ord..	C. C. Mack.....	W-2447.....7886
Fish Culture Systems Specialist.....	D. Farquhar.....	W-2454.....7886
Engineer.....	H. Yoshida.....	W-2452.....7886
Environmental Dynamics Section...	D. P. Dodge, Spvr.....	W-2312.....7887
Habitat Enhancement Biologist..	R. M. Biette.....	W-2312.....7887
Habitat Protection Biologist...	J. T. Allin.....	W-2312.....7887
Aquatic Habitat Inventory Biologist.....	G. A. Goodchild.....	W-2312.....7887
Inventory Data Systems & Lab Specialist.....	G. E. Gale.....	W-2312.....7887
Aquatic Habitat Acidification Spec.....	G. L. Beggs.....	W-2312.....7887

Box 50, Maple, Ontario L0J 1E0 Telephone (416) 832-2761

Fisheries Research Section.....	.....	Ext. 251
Age/Growth Studies & Environmental Stress.....	J. Casselman.....	251
Brook Trout Studies.....	J. H. Fraser.....	251
Community Dynamics.....	D. O. Evans.....	251
Limnology.....	A. M. McCombie.....	251
Stocks Assessment & Genetics.....	P. Ihssen.....	251
Harkness Memorial Lab (winter).....	J. A. MacLean.....	251
Harkness Memorial Lab (summer).....	J. A. MacLean..... (705) 637-2103	
Systems Ecology.....	B. Shuter.....	251

RESEARCH STATIONS

Fisheries Research Section..... Box 5000, Thunder Bay, Ont P7C 5G6	R. A. Ryder..... P. J. Colby.....	(807) 683-6232 475-1635
Sault Ste. Marie Research Stn.... 875 Queen St. E., Sault Ste. Marie, Ont. P6A 2B3	W. H. Kwain.....	(705) 942-1411
South Baymouth Fisheries Lab..... R.R. 1, Tehkummah, Ont. POP 2C0	B. Henderson..... J. A. Reckahn.....	(705) 859-3137 3137
Wheatley Fisheries Research Stn.. R.R. 2, Wheatley, Ont. NOP 2P0	S. J. Nepszy..... J. H. Leach.....	(519) 825-4171 4171
Glenora Fisheries Research Stn... R.R. 4, Picton, Ont. KOK 2T0	W. J. Christie..... D. A. Hurley.....	(613) 476-2400 2400
Harkness Lab (Algonquin Park).... Box 110, Whitney, Ont. KOJ 2M0	Dr. J. A. MacLean.....	(705) 637-2103

FISH PLANTINGS

Numbers in 000s of Fish (F) and Eggs (E)
 Stocked from Ontario Fish Culture Stations

Species	E/F	1979	1980	1981	1982	1983
Coho Salmon	F	286	418	224	144	181
Chinook Salmon	F	147	18	12	270	222
Rainbow Trout	F	1,099	1,347	395	369	318
Brown Trout	F	-	-	-	71	134
Brook Trout	E	18	-	860	-	302
	F	682	1,260	1,459	824	1,757
Lake Trout	E	6	5	-	-	25
	F	1,478	1,928	2,636	2,517	1,874
Lake Trout Backcross	F	-	-	-	-	856
Splake	E	-	76	-	-	180
	F	800	798	684	927	104
Aurora Trout	F	21	17	30	-	21
Whitefish	F	-	-	-	13	15
Muskellunge	F	1,490	1,120	791	1,146	902
Smallmouth Bass	F	78	65	160	-	-
Largemouth Bass	F	-	-	-	-	-
Walleye	E	13,450	-	-	-	-
	F	10	472	29	31	156
Total		19,567	7,523	7,250	6,312	7,047

COMMERCIAL FISHING LICENCES

Year	Food-Fish Harvesting	Bait-Fish Harvesting	Bait-Fish Dealers	Bait-Fish Preservers	Total
1979	1,093	1,549	1,791	114	4,547
1980	1,029	1,728	1,858	124	4,739
1981	1,047	1,712	1,861	142	4,762
1982	1,068	1,694	1,847	134	4,743
1983	961	1,782	1,961	148	4,852

ANGLING LICENCES

Year	Number Sold to Non-Residents
1979	673,925
1980	628,988
1981	673,334
1982	661,934
1983	627,508

FISH STOCKING from Ontario Provincial Fish Culture Stations

For the fiscal year ending March 31, 1984

(E-Eggs)

Station	Species	Quantity	Weight (kg)
Codrington	Brown Trout	134,271	3,966
Chatsworth	Lake Trout	122,238	2,873
	Lake Trout Backcross	725,940	36,468
	Splake	1,568	845
	Whitefish	14,661	558
Deer lake	Rainbow Trout	83,655	3,359
	Brook Trout	38,843	373
	Lake Trout	148,557	1,776
	Muskellunge	902,393	141
Dorion	Brook Trout	344,756	4,506
		302,460 E	-
	Lake Trout	688,186	15,845
Hill's Lake	Brook Trout	497,694	5,221
	Lake Trout	10,000	13
Normandale	Rainbow Trout	112,305	6,977
North Bay	Brook Trout	180,047	2,055
	Lake Trout	80,492	2,206
	Splake	99,649	2,231
	Aurora Trout	21,100	7
	Coho Salmon	6,666	258
Pembroke	Brook Trout	222,740	2,228
	Lake Trout	162,350	2,158
Ringwood	Coho Salmon	174,779	5,329
	Chinook Salmon	221,699	287
Sandfield	Brook Trout	32,340	206
	Lake Trout	53,300	930
		25,000 E	-
	Lake Trout Backcross	130,008	3,607
	Splake	300	216
		180,000 E	-
Skeleton Lake	Rainbow Trout	53,661	289
	Brook Trout	193,450	1,384
	Lake Trout	95,880	637
Tarentorus	Rainbow Trout	56,523	4,011
	Brook Trout	204,000	1,794
	Lake Trout	269,557	2,791
White Lake	Rainbow Trout	225	23
	Brook Trout	13,525	199
	Lake Trout	192,910	2,468
	Splake	2,000	29
	Walleye	155,835	107
Westport	Rainbow Trout	11,429	906
	Brook Trout	29,180	437
	Lake Trout	50,917	1,136

EMPLOYMENT AND INVESTMENT IN COMMERCIAL FISHERY - 1983

Classification		Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron
Men employed	No.	236	915	23	136
FISHING BOATS					
12.2 m and over	No.	6	162	-	28
	kg	87,996	4,731,851	-	490,784
	Value \$	327,000	22,831,595	-	2,557,358
6.1 m to 11.9 m	No.	57	32	10	14
	Value \$	748,650	491,150	96,700	313,500
Under 6.1 m	No.	187	54	7	9
	Value \$	383,495	70,145	14,900	6,150
FISHING GEAR					
Gill Nets	Metres	1,035,096	7,884,964	-	1,168,512
	Value \$	770,297	6,091,705	-	1,113,700
Pound Nets	No.	-	27	142	2
	Value \$	-	50,000	102,000	3,000
Trap Nets	No.	94	247	163	118
	Value \$	101,000	581,500	113,500	230,941
Hoop Nets	No.	955	155	40	-
	Value \$	386,050	70,200	30,000	-
Seine Nets	Metres	3,388	3,731	778	-
	Value \$	36,400	43,300	6,400	-
Night Lines	No.	48,866	5,600	6,009	1,000
	Value \$	24,386	6,100	5,000	300
Dip Nets	No.	21	7	-	3
	Value \$	341	716	-	32
Trawl Nets	No.	-	331	-	7
	Value \$	-	797,335	-	22,000
Trammel Nets	Metres	-	-	-	-
	Value \$	-	-	-	-
SHORE INSTALLATIONS					
Freezers & Icehouses	No.	32	33	6	29
	Value \$	247,600	1,406,734	87,000	493,600
Piers & Wharves	No.	35	38	8	9
	Value \$	160,380	259,700	33,200	83,800
Net Sheds	No.	91	127	12	26
	Value \$	330,159	2,359,722	158,000	506,800
Miscellaneous	Value \$	6,200	5,710	-	-
NEW CAPITAL INVESTMENT					
Engines	Value \$	86,676	137,651	1,400	5,085
Hulls	Value \$	119,539	121,320	2,300	6,400
Fishing Gear	Value \$	178,326	1,353,741	1,260	203,974
Wheelhouse Equip.	Value \$	14,677	238,129	-	48,645
Other Equipment	Value \$	-	24,800	-	-
TOTAL NEW CAPITAL INVESTMENT					
		399,218	1,875,641	4,960	264,104
TOTAL INVESTMENT					
		3,921,176	36,941,253	651,660	5,595,285

EMPLOYMENT AND INVESTMENT IN COMMERCIAL FISHERY - 1983

Classification	Georgian Bay	North Channel	Lake Superior	Northern Inland Waters	Southern Inland Waters	Total
Men Employed	82	73	145	312	59	1,981
FISHING BOATS						
12.2 m & over No.	14	15	21	5	-	251
kg	192,322	248,567	464,476	68,039	-	6,284,035
Value \$	713,500	643,358	1,877,000	188,000	-	29,137,811
6.1m to 11.9m No.	19	7	25	60	6	230
Value \$	278,600	21,300	267,100	287,316	22,900	2,527,216
Under 6.1m No.	20	18	52	156	37	540
Value \$	53,300	25,275	97,380	331,705	49,900	1,032,250
FISHING GEAR						
Gill Nets Meters	601,218	322,052	1,093,782	454,397	19,065	12,579,086
Value \$	492,950	233,920	875,675	364,640	14,080	9,956,967
Pound Nets No.	9	1	8	18	-	207
Value \$	6,900	2,000	20,000	16,500	-	200,400
Trap Nets No.	6	15	9	110	14	776
Value \$	21,000	53,500	14,600	124,810	13,800	1,254,651
Hoop Nets No.	-	7	2	79	410	1,648
Value \$	-	1,000	3,000	16,120	106,970	613,340
Seine Nets Metres	-	-	-	-	1,081	8,978
Value \$	-	-	-	-	5,800	91,900
Night Lines No.	-	-	-	750	3,300	65,525
Value \$	-	-	-	500	1,635	37,921
Dip Nets No.	5	1	10	23	3	73
Value \$	101	70	205	370	115	1,950
Trawl Nets No.	-	-	14	-	-	352
Value \$	-	-	30,500	-	-	849,835
Trammel Nets Metres	-	-	-	-	1,861	1,861
Value \$	-	-	-	-	4,650	4,650
SHORE INSTALLATIONS						
Freezers & No.	23	20	40	84	10	277
Icehouses Value \$	167,100	215,550	1,541,600	411,926	9,513	4,580,623
Piers & No.	15	9	43	76	10	243
Wharves Value \$	62,650	31,383	122,150	124,528	18,725	896,516
Net Sheds No.	19	19	60	74	16	444
Value \$	151,500	119,076	317,300	168,860	21,760	4,133,177
Misc. Value \$	-	-	15,000	102,000	75	128,985
NEW CAPITAL INVESTMENT						
Engines Value \$	14,400	26,488	83,600	77,487	10,450	443,237
Hulls Value \$	53,000	22,000	72,700	25,040	3,000	425,299
Fishing Gear Value \$	46,615	71,444	126,512	55,978	10,966	2,048,816
Wheelhouse Equip. Value \$	27,395	7,644	23,400	2,300	-	362,190
Other Equipment Value \$	-	-	-	22,669	-	47,469
TOTAL NEW CAPITAL INVESTMENTS	141,410	127,576	306,212	183,474	24,416	3,327,011
TOTAL INVESTMENT	2,089,011	1,474,008	5,487,722	2,320,749	294,339	58,775,203

COMMERCIAL FISH INDUSTRY

Commercial Fish Harvest - January to December 1983

shown in kilograms and dollar value

Species	Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron	Georgian Bay
Bowfin	5	37,123	7,382	-	-
Bullhead	132,797	33,964	768	-	739
Burbot (ling)	-	2,766	-	7,538	1,861
Carp	43,335	88,569	19,080	12,177	931
Catfish	7,643	36,139	35,511	27,152	61
Chub (Deepwater Cisco)	-	-	-	251,940	124,298
Crappie	14,114	9,249	30	-	-
Eel	66,779	139	-	3	-
Lake Herring	2,598	-	-	10,842	10,353
Lake Trout	-	-	-	56,369	198
Lake Whitefish	6,189	11,179	-	1,299,830	36,648
Freshwater Drum	1,917	144,618	15,797	25,228	-
Northern Pike	7,024	7,117	2,396	100	3,319
Pacific Salmon	63	22,205	-	8,650	296
Rock Bass	7,864	20,191	2,993	177	124
Round Whitefish	35	-	-	4,438	6,497
Sauger	3	-	-	-	-
Shad	123	11,351	-	2,960	-
Smelt	44,025	13,269,551	-	131	11
Splake	-	2,314	-	585	23,323
Sturgeon	198	1,034	-	1,395	-
Sucker	12,026	12,875	25,721	29,658	21,625
Sunfish	58,406	26,975	-	-	-
White Bass	3,625	2,059,539	5,851	6,696	99
White Perch	28,864	38,693	1,125	242	-
Yellow Perch	519,769	2,538,719	4,727	227,455	29,354
Yellow Pickerel	1,978	1,400,067	-	129,105	7,016
Animal Food	6,351	588,485	529	23,686	3,095
Total Landings (kg)	1,025,731	20,362,862	121,910	2,126,357	269,848
Total Value (\$)	1,880,261	17,748,419	76,328	4,230,966	478,115

COMMERCIAL FISH INDUSTRY

Commercial Fish Harvest - January to December 1983

shown in kilograms and dollar value

Species	North Channel	Lake Superior	Northern Inland Waters	Southern Inland Waters	Total Landings (kg)	Total Value (\$)
Bowfin	-	-	-	-	44,510	6,717
Bullhead	428	-	3,012	49,485	221,193	212,545
Burbot (ling)	1,411	-	57,612	875	72,063	3,766
Carp	502	-	-	16,178	180,772	68,525
Catfish	4	-	-	4,410	110,920	110,171
Chub (Deepwater Cisco)	122	31,106	112,412	-	519,878	692,496
Crappie	-	-	-	4,872	28,265	59,500
Eel	-	-	-	2,348	69,269	111,303
Lake Herring	2,118	563,428	18	-	589,357	417,359
Lake Trout	1,805	185,320	17,992	-	261,684	800,935
Lake Whitefish	199,866	133,512	538,929	-	2,226,153	3,081,312
Freshwater Drum	5	-	261	238	188,064	32,964
Northern Pike	7,264	2,706	248,311	7	278,244	225,427
Pacific Salmon	33,293	4,279	-	98	68,884	105,070
Rock Bass	508	-	14,422	3,251	49,530	80,318
Round Whitefish	2,520	13,068	-	-	26,558	16,112
Sauger	-	-	20,120	27	20,150	24,972
Shad	-	-	-	-	14,434	708
Smelt	17	377	-	1,937	13,316,049	3,679,257
Splake	3,064	-	-	-	29,286	83,609
Sturgeon	2,219	160	14,765	2,045	21,816	126,277
Sucker	17,221	104,677	258,818	1,497	484,118	77,289
Sunfish	-	-	-	25,986	111,367	111,719
White Bass	17	-	306	293	2,076,426	1,793,082
White Perch	-	-	-	5,397	74,321	91,219
Yellow Perch	37,623	40,407	2,791	11,626	3,472,471	11,355,933
Yellow Pickerel	9,676	167	292,402	-	1,840,411	4,447,517
Animal Food	61,160	-	108,649	22,079	814,034	21,540
Total Landings (kg)	380,843	1,079,207	1,690,820	152,649	27,210,227	
Total Value (\$)	554,125	1,297,169	1,420,446	151,813		27,837,642

ONTARIO COMMERCIAL FISH HARVEST

by species in 000s kg and \$000s

Species	1979	1980	1981	1982	1983	1983 Value
Bowfin	14	9	20	13	45	7
Bullhead	236	241	234	204	221	213
Burbot (ling)	129	108	182	81	72	4
Carp	180	121	208	158	181	68
Catfish	96	85	117	96	111	110
Chub (Deepwater Cisco)	498	446	394	308	520	693
Pacific Salmon	21	17	38	27	69	105
Eel	226	168	112	32	69	111
Freshwater Drum	164	179	257	230	188	33
Goldeye	-	-	-	-		
Lake Herring (Cisco)	990	1,464	1,456	1,122	589	417
Lake Trout	165	278	227	258	262	801
Lake Whitefish	1,289	1,681	1,748	1,765	2,226	3,081
Northern Pike	312	267	296	321	278	225
Rock Bass & Crappie	99	75	64	58	78	140
Round Whitefish	46	75	57	35	27	16
Sauger	16	17	20	28	20	25
Smelt	10,892	11,336	13,944	19,611	13,316	3,679
Splake	9	39	57	40	29	84
Sturgeon	15	21	20	20	22	126
Sucker (Mullet)	630	563	606	626	484	77
Sunfish	127	118	126	130	111	112
White Bass	763	904	896	1,579	2,076	1,793
White Perch	49	57	47	39	74	91
Yellow Perch	5,873	6,236	4,784	4,962	3,473	11,356
Yellow Pickerel	1,046	1,343	1,476	1,368	1,841	4,447
Animal Food	1,010	637	772	688	828	23
Total Landings	24,895	26,485	28,158	33,799	27,210	
Total Landed Value	\$25,874	\$23,644	\$31,767	\$36,788		\$27,837

ONTARIO COMMERCIAL FISH HARVEST

by waters in 000s kg and \$000s

Year	Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron	Georgian Bay
1979	878	18,473	-	858	331
1980	891	19,490	37	1,083	361
1981	1,163	20,334	93	1,461	346
1982	939	26,989	153	1,324	269
1983	1,025	20,363	122	2,126	270

Year	North Channel	Lake Superior	Northern Inland Waters	Southern Inland Waters	Total	Total \$
1979	210	1,621	2,217	307	24,895	25,874
1980	158	2,151	2,080	234	26,485	23,644
1981	314	2,060	2,154	233	28,158	31,767
1982	322	1,515	2,091	197	33,799	36,788
1983	381	1,079	1,691	153	27,210	27,837

LAKE ONTARIO COMMERCIAL FISH HARVEST

by species in 000s kg and \$000s

Year	Bullhead and Catfish	Carp	Eel	Lake Herring	Smelt	Sunfish
1979	163	4	222	13	26	70
1980	176	-	164	5	22	72
1981	154	73	109	2	34	60
1982	120	13	29	2	37	69
1983	141	43	67	3	44	58

Year	White Perch	Yellow Perch	Other Species	Total	Total \$
1979	46	253	81	878	1,478
1980	55	265	132	891	1,147
1981	48	563	120	1,163	1,930
1982	34	539	96	939	1,905
1983	29	580	60	1,025	1,880

LAKE ERIE COMMERCIAL FISH HARVEST

by species in 000s kg and \$000s

Year	Bullhead and Catfish	Carp	Freshwater Drum	Smelt	White Bass
1979	54	15	122	10,831	756
1980	56	10	151	11,296	888
1981	76	15	212	13,790	881
1982	54	19	190	19,556	1,556
1983	70	89	145	13,270	2,060

Year	Yellow Perch	Yellow Pickerel	Other Species	Total	Total \$
1979	5,423	538	734	18,473	17,592
1980	5,674	800	615	19,490	14,024
1981	3,795	956	609	20,334	20,261
1982	4,134	909	571	26,989	26,183
1983	2,539	1,400	790	20,363	17,748

LAKE ST. CLAIR COMMERCIAL FISH HARVEST

by species in 000s kg and \$000s

Year	Bullhead and Catfish	Carp	Freshwater Drum	Northern Pike	Rock Bass & Crappie
1979	-	-	-	-	-
1980	7	14	5	1	1
1981	22	34	11	1	1
1982	30	74	17	1	2
1983	26	19	16	2	3

Year	Sucker	White Bass	Yellow Perch	Other Species	Total	Total \$
1979	-	-	-	-	-	-
1980	5	2	-	2	37	23
1981	11	5	1	7	93	53
1982	15	8	1	5	153	77
1983	26	6	5	9	122	76

LAKE HURON COMMERCIAL FISH HARVEST

by species in 000s kg and \$000s

Year	Carp	Chub	Lake Herring	Lake Whitefish	Round Whitefish
1979	17	67	3	375	5
1980	15	101	3	524	6
1981	14	219	3	594	4
1982	13	194	4	702	4
1983	12	252	11	1,300	4

Year	Sucker (Mullet)	Yellow Perch	Yellow Pickerel	Other Species	Total	Total \$
1979	30	49	95	217	858	1,730
1980	18	201	124	91	1,083	2,369
1981	49	246	124	208	1,461	3,255
1982	63	135	117	92	1,324	2,833
1983	30	227	129	161	2,126	4,231

GEORGIAN BAY COMMERCIAL FISH HARVEST

by species 000s kg and \$000s

Year	Carp	Chub	Lake Herring	Lake Whitefish	Round Whitefish
1979	4	122	21	74	19
1980	7	77	20	88	15
1981	2	57	12	105	8
1982	2	57	12	77	9
1983	1	124	10	37	6

Year	Sucker (Mullet)	Yellow Perch	Yellow Pickerel	Other Species	Total	Total \$
1979	13	45	17	16	331	641
1980	41	36	11	66	361	505
1981	28	49	11	74	346	669
1982	20	39	9	44	269	504
1983	22	29	7	34	270	478

NORTH CHANNEL COMMERCIAL FISH HARVEST

by species in 000s kg and \$000s

Year	Smelt	Lake Whitefish	Northern Pike	Round Whitefish	Sturgeon
1979	-	63	9	3	2
1980	-	73	6	1	4
1981	-	120	13	2	3
1982	-	171	9	1	2
1983	-	200	7	3	2

Year	Sucker (Mullet)	Yellow Perch	Yellow Pickereel	Other Species	Total	Total \$
1979	36	29	20	48	210	280
1980	34	7	13	20	158	279
1981	26	52	20	78	314	526
1982	27	39	20	53	322	618
1983	17	38	10	104	381	554

LAKE SUPERIOR COMMERCIAL FISH HARVEST

by species in 000s kg and \$000s

Year	Chub	Lake Herring	Lake Trout	Lake Whitefish	Smelt
1979	271	887	111	159	34
1980	240	1,282	212	225	17
1981	91	1,327	176	173	42
1982	18	901	189	164	17
1983	31	563	185	133	-

Year	Sucker (Mullet)	Yellow Perch	Yellow Pickereel	Other Species	Total	Total \$
1979	75	47	-	37	1,621	1,723
1980	77	38	-	60	2,151	2,606
1981	110	61	-	80	2,060	2,246
1982	124	61	1	40	1,515	2,063
1983	105	40	-	22	1,079	1,297

NORTHERN INLAND WATERS COMMERCIAL FISH HARVEST

by species in 000s kg and \$000s

Year	Burbot	Chub	Lake Herring	Lake Trout	Lake Whitefish
1979	122	38	63	34	616
1980	91	27	154	32	765
1981	169	26	106	18	745
1982	70	40	200	48	629
1983	58	112	-	18	539

Year	Northern Pike	Sucker (Mullet)	Yellow Pickere1	Other Species	Total	Total \$
1979	266	446	353	279	2,217	2,228
1980	226	337	337	111	2,080	2,533
1981	246	358	363	123	2,154	2,641
1982	275	341	311	177	2,091	2,426
1983	248	259	292	165	1,691	1,421

SOUTHERN INLAND WATERS COMMERCIAL FISH HARVEST

by species in 000s kg and \$000s

Year	Bullhead & Catfish	Carp	Lake Whitefish	Rock Bass & Crappie	Sucker (Mullet)
1979	58	138	-	11	9
1980	57	71	-	4	15
1981	63	69	-	8	4
1982	63	34	-	11	19
1983	54	16	-	8	1

Year	Sunfish	White Perch	Yellow Perch	Other Species	Total	Total \$
1979	31	3	18	39	307	203
1980	29	2	11	45	234	157
1981	34	3	15	37	233	186
1982	34	1	10	25	197	181
1983	26	5	12	31	153	152

EMPLOYMENT AND INVESTMENT IN ONTARIO COMMERCIAL FISHERY

Year	Employees	40' & Over	Under 40'	Gill M 000s	Pound Nets	Trap Nets	Hoop Nets
1979	1997	212	913	10,689	80	476	1497
1980	1964	213	837	12,068	172	556	1630
1981	2043	237	885	12,616	160	689	1430
1982	2106	238	980	12,735	269	732	1504
1983	1981	251	770	12,579	207	776	1648

Year	Seine M 00s	Freezers & Ice Houses	Wharves and Piers	Net Sheds	New Invest. \$000s	Total Value \$000s
1979	62	309	263	451	2,834	33,950
1980	75	317	250	457	3,714	41,481
1981	77	291	275	476	5,447	54,676
1982	78	322	277	482	3,655	57,345
1983	89	277	243	444	3,327	58,775

LANDS AND WATERS GROUP

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Executive Co-ordinator.....	H. A. Clarke.....	W-6626.....6046
Administrative Assistant.....	Ms. H. Cobden.....	W-6623.....1075
Res. Economist.....	Dr. P. L. M. Warwick....	W-6625.....5067

LAND MANAGEMENT BRANCH

Room W-6643, Main Office Telephone (416) 965-1316

Branch Director.....	S. E. Yundt.....	W-6643.....1498
Secretary.....	Mrs. B. Bourne.....	W-6643.....1316
Admin. Asst.....	Mrs. B. Luksis.....	W-6643.....1316
Chief Mining Recorder.....	W. L. Good.....	W-6521...3-3093
Training Co-ordinator.....	C. Turpenney.....	W-6644.....1607
Public Lands Section.....	J. Morton, Spvr.....	W-6603.....2741
Public Lands Management.....	L. Fleguel.....	W-6621.....4507
Disposition.....	W. P. Small.....	W-6621.....2743
Land Appraisals and Property Management Officer.....	J. Cameron.....	W-6629.....2742
Land Management Planning.....	N. C. Gordon.....	W-6604.....2742
Land Acquisition Officer.....	J. Paige.....	W-6629.....2743
Mining Lands Section.....	J. C. Smith, Spvr.....	W-6602.....1380
Mining Lands Administrator.....	F. W. Matthews.....	W-6610.....6918
Mining Lands Administrator.....	R. Pichette.....	W-6610.....4888
Titles Section.....	J. Hogan, Spvr.(acting).	W-6645.....1319
Document Officer.....	C. D. Egerton.....	W-6645.....1319
Acreage Tax Administrator.....	Mrs. D. Holland.....	W-6645.....1319
Records Officer.....	R. E. Dixon.....	W-6645.....1319
Land Records Manager.....		W-6645.....1319
Resource Access Section.....	P. Brook, Spvr.(acting).	W-6642.....5735

PUBLIC LAND in years ending March 31

Year	Patents		Leases		Licences of Occupation	
	No.	ha	No.	ha	No.	ha
1979	126	523	63	99	79	3,580
1980	578	1,216	201	198	135	3,407
1981	890	1,093	162	276	100	3,066
1982	690	2,385	211	448	113	845
1983	1,093	1,517	114	208	96	472
1984	1,324	8,674	110	365	90	106

LANDS ACQUIRED BY CROWN in years ending March 31

Year	Provincial Tax Forfeitures	Cancellation of Sales	Purchased or Otherwise Acquired	Forfeitures
	ha	ha	ha	ha
1979	-	0.4	2,075	22,663
1980	0.4	-	2,480	15,783
1981	1.20	0.16	703	3,600
1982	492	-	722	6,275
1983	661	-	1,402	4,047
1984	482	1	520	2,832

USE OF ACQUIRED LANDS areas in hectares, years ending March 31

Year	Provincial Parks ha	Lands General ha	Sport Fisheries ha	Wildlife Mgmt. ha	Timber Mgmt. ha	Total ha	Interim Property Mgmt.
1975	4,815	87	0.80	384	-	5,286	-
1976	2,143	12	6	163	-	2,325	-
1977	630	140	81	248	2	1,101	35,424
1978	548	4.04	-	111	4,332	4,995	36,095
1979	2,028	79	-	-	3	2,110	34,715
1980	2,350	109	16	-	5	2,480	35,008
1981	549	-	51	3	100	703	34,692
1982	588	32	47	24	31	722	26,633
1983	261	56	146	213	726	1,402	25,113
1984	420	2	-	-	98	520	20,280

MINING LANDS in years ending March 31

Year	Patents		Renewals		Leases New	
	No.	ha	No.	ha	No.	ha
1979	-	-	137	2,049	53	3,923
1980	-	-	185	5,327	94	11,185
1981	-	-	141	2,302	60	7,704
1982	-	-	77	1,226	68	6,446
1983	-	-	85	1,937	80	9,230
1984	-	-	71	779	287	10,999

Year	Surface Rights		Licences of Occupation		Quit Claim Deeds and Re-grants	
	No.	ha	No.	ha	No.	ha
1979	1	37	2	27,694	142	3,764
1980	2	90	1	16	297	7,538
1981	-	-	5	147,191	38	624
1982	-	-	3	366,705	49	1,157
1983	-	-	1	864	45	1,196
1984	1	372	3	3,012	77	952

PROSPECTING ACTIVITIES

in years ending March 31

Year	Mining Claims		In Good Standing	Assessment Work (Days)	Quarry Permits Issued	Miners' Licences	
	Recorded	Cancelled				Issued	Renewed
1979	13,041	16,444	37,669	752,155	1,178	991	1,723
1980	16,875	10,952	36,092	437,619	1,301	1,347	1,854
1981	36,535	11,279	72,809	972,469	1,188	2,130	2,660
1982	26,075	17,709	76,125	1,565,197	1,520	1,871	2,796
1983	55,942	24,395	113,167	1,516,226	1,449	2,040	3,190
1984	57,774	20,958	144,812	3,461,208	1,567	2,400	3,343

1983/84 MNR ROADS PROGRAM

REGION	kms Con./Recon.	Bridges Con./Recon	Expenditures (\$000s)	kms Maintained	Expenditure (\$000s)
NORTHERN ONTARIO					
Northwestern	6.0	-	\$318.1	827.0	\$453.0
North Central	52.4	4	871.0	1,528.5	759.3
Northern	58.5	2	796.9	1,202.0	913.5
Northeastern	61.4	-	989.6	1,726.0	442.5
Subtotals	178.3	6	\$2,975.6	5,283.5	\$2,568.3
SOUTHERN ONTARIO					
Algonquin	0.7	-	\$42.5	974.0	\$321.9
Eastern	4.8	-	107.9	625.0	155.9
Central	-	-	-	178.7	67.0
Southwestern	-	-	-	144.3	36.3
Subtotals	5.5	-	\$150.4	1,922.0	\$581.1
PROVINCIAL TOTALS	183.8	6	\$3,126.0	7,205.5	\$3,149.4

Program includes: Forest Access, Agreement Forest, Ministry Service,
Fuelwood Access, Public Transport, Private Forest Road
Maintenance Agreements and Recreational Access Roads.

1983/84 NORTHERN ONTARIO RESOURCES

TRANSPORTATION COMMITTEE - DIRECT PROGRAM (MNR portion only)

REGION	kms Con./Recon.	Bridges Con- structed	Expendi- tures (\$000s)	kms Main- tained	Expendi- tures (\$000s)	kms Winter Road	Expendi- tures (\$000s)
Northwestern	11.7	-	\$1,655.3	78.0	\$34.1	226.0	\$245.3
North Central	1.2	-	83.7	32.0	13.2	-	-
Northern	54.4	1	968.8	-	-	288.0	-
Northeastern	17.0	-	273.4	22.5	5.5	-	106.9
TOTAL	84.3	1	\$2,981.2	132.5	\$52.8	514.0	\$352.2

1983/84 NORTHERN ONTARIO RESOURCES TRANSPORTATION

COMMITTEE - INDIRECT PROGRAM (COMPANY) - (MNR Portion Only)

	kms Con./Recon	Bridges Cons./Recon.	Expenditures (\$000s)
Northwestern	9.6	-	\$175.7
North Central	21.9	-	180.8
Northern	-	-	-
Northeastern	-	-	-
TOTAL	31.5	-	\$356.5

1983/84 FOREST MANAGEMENT
SUBSIDIARY AGREEMENT PROGRAM*

CROWN PROJECTS			
REGION	kms Con./Recon.	Bridges Con./Recon.	Expenditures (\$000s)
Northwestern	-	-	\$79.4**
North Central	67.1	1.5	8,117.9
Northern	9.0	1.0	1,304.6
Northeastern	21.0	2.0	2,087.9
Contract Staff	-	-	62.5
TOTAL	97.1	4.5	\$11,652.3

** clearing and sand fill

COMPANY PROJECTS			
REGION	kms Con./Recon.	Bridges Con./Recon.	Expenditures (\$000s)
Northwestern	-	-	-
North Central	15.7	1	\$699.9
Northern	14.5	-	307.5
Northeastern	-	-	-
TOTAL	30.2	1	\$1,007.4
TOTAL PROGRAM	127.3	5.5	\$12,659.7

* FMSA Program is co-funded by the federal and provincial governments.

1983/84 FOREST MANAGEMENT AGREEMENT PROGRAM*
(Partially Funded by BILD)

REGION	kms Con./Recon.	Expenditures (\$000s)	km Maintained	Expenditures (\$000s)
Northwestern	87.2	\$2,020.2	120.3	\$49.5
North Central	255.6	5,622.5	493.7	157.5
Northern	531.6	11,815.0	618.0	240.5
Northeastern	179.6	3,727.6	55.3	55.3
TOTAL	1,054.0	\$23,185.3	1,366.0	\$502.8

The FMA Program is funded in accordance with agreements between MNR and forest companies.

1983/84 BILD - CAPITAL ACCELERATION PROGRAM

REGION	kms Con./Recon.	Bridges Con./recon.	Expenditures (\$000s)
Northwestern	24.8	-	\$1,076.2
North Central	16.4	2	277.5
Northern	130.4	1	3,232.0
Northeastern	17.0	-	418.0
TOTAL	188.6	3	\$5,003.7

1983/84 RESOURCE ACCESS PROGRAM SUMMARY
MNR ROAD & BRIDGE CONSTRUCTION & MAINTENANCE

Crown	MNR Roads Program	BILD Program	NORTC Program	FMSA Program	FMA Program	Totals
Road Con./ Recon. (kms)	183.8 6 bridges	188.6 3 bridges	84.3 1 bridge	97.1 4.5 bridges	-	553.8 14.5
Expenditures	\$3,126.0	\$5,003.7	\$2,981.2	\$11,652.3	-	\$22,763.2
Road Main- tained (kms)	7,205.5	-	132.5	-	-	7,338.0
Expenditures	\$3,149.4	-	\$52.8	-	-	\$3,202.2
Winter Road Con./Recon. (kms)	-	-	514.0	-	-	514.0
Expenditures	-	-	\$352.2	-	-	\$352.2

ROADS & BRIDGES CONSTRUCTED & MAINTAINED
BY COMPANIES UNDER AGREEMENT

Company	NORTC Program	FMSA Program	FMA Program	Totals
Road Con./ Recon. (kms)	31.5	30.2 1 bridge	1,054.0	1,115.7 1 bridge
Expenditures	\$356.5	\$1,007.4	\$23,185.3	\$24,549.2
Road Main- tained (kms)	-	-	1,366.0	1,366.0
Expenditures	-	-	\$502.8	\$502.8

Lands and Waters Group

SURVEYS AND MAPPING BRANCH




Room W-3440, Main Office Telephone (416) 965-6225

Surveyor General, Branch Director	J. H. O'Donnell.....	W-3448.....6225
Surveying Services, General Mgr..	S. B. Panting.....	W-3446.....4538
Surveys Manager.....	D. E. Norris.....	W-3449.....2714
Asst. Mgr. Examinations.....	J. E. Hietala.....	W-3444.....2714
Asst. Mgr. Technical Services..	J. A. MacIntosh.....	W-3447.....2714
Survey Research and		
Descriptions.....	R. F. Weatherbe.....	W-3442.....2714
Survey Records Information.....	D. E. Jeanes.....	W-3422.....1416
Geographical Referencing Mgr...	J. H. Kerr.....	W-3425.....4538
Mathematical Adjustments, Head.	Z. Jiwani.....	W-3427.....4538
Control Survey Analyst.....	K. M. Kelly.....	W-3427.....4789
LRIS Analyst and Technologist..	G. R. Zillmer.....	W-3450.....2779
Geodetic Analyst.....	C. Broughton.....	W-3423.....2198
Mapping Services, General Manager	C. T. Osborne.....	W-2540.....4941
Cartographic Services.....	F. W. Dawson.....	W-2540.....4743
Drafting Services Manager.....	D. W. Robeson.....	W-2540.....1823
Nomenclature Services Manager..	M. B. Smart.....	W-2601.....6515
Basic Mapping Manager.....	B. Jackson.....	W-2540.....1208
Chief Contract Monitor.....	R. Audas.....	W-2640.....0293
Ontario Centre for Remote Sensing		
880 Bay Street, Toronto, Ont. M5S	1Z8	
Associate Director.....	V. Zsilinszky.....	8411
Chief Scientist.....	S. Pala.....	8411
Senior Scientist.....	A. Boissonneau.....	8411
Senior Scientist.....	A. Jano.....	8411
Staff Scientist.....	R. Mussakowski.....	8411
Staff Scientist.....	T. Ellis.....	8411
Staff Scientist.....	Vacant.....	8411
Research Officer, Engineering..	V. Singhroy.....	8411
Airborne Program Co-ordinator..	I. Ross.....	8411
Airborne Program Specialist....	Vacant.....	8411
Photo Research Lab Supervisor..	D. Klimes.....	8411



MAPPING SERVICES
ONTARIO BASIC MAPPING



1:20 000 , 1:10 000 scales

-  Completed .
-  In progress .
-  To be mapped .

1:2 000 scale

198 Communities completed .
79 Communities in progress .

SURVEYING SERVICES

-  Area of original township surveys .
-  Township boundaries resurveyed / restored .

9495 kms completed .



SURVEYING SERVICES

Township Boundary Resurvey Program

Year	Km. Resurveyed
<hr/>	
1961-62	334.34
1962-63	277.93
1963-64	276.89
1964-65	604.39
1965-66	601.94
1966-67	466.07
1967-68	419.07
1968-69	442.59
1969-70	424.87
1970-71	494.71
1971-72	529.47
1972-73	388.93
1973-74	306.95
1974-75	395.11
1975-76	277.82
1976-77	324.82
1977-78	328.31
1978-79	494.39
1979-80	525.29
1980-81	461.72
1981-82	407.57
1982-83	405.30
1983-84	307.50
<hr/>	
Total	9,495.40

CROWN LAND SURVEY PLAN EXAMINATIONS

Year	No. Plans Examined
1978-79	270
1979-80	317
1980-81	323
1981-82	641
1982-83	791
1983-84	831

DESCRIPTIONS PREPARED

Year	No. Descriptions Prepared
1978-79	897
1979-80	903
1980-81	779
1981-82	1,052
1982-83	1,585
1983-84	2,119

PROVINCIAL HORIZONTAL CONTROL SURVEY

Data Base COSINE	
Year	Stations Loaded
1981-82	10,000
1982-83	13,000
1983-84	11,000
Total	34,000

PRECISE CALIBRATION BASELINE INSTALLATION

Year Installed	Baseline Name
1977-78	Mississauga
1979-80	Scarborough
1980-81	Burlington
1981-82	London
1982-83	Belleville
1983-84	Lindsay & Conestoga

Lands and Waters Group

OFFICE OF INDIAN RESOURCE POLICY

Room 6527, Whitney Block Telephone (416) 965-6045

Director.....	E. G. Wilson.....	W-6527.....	6045
Secretary.....	C. A. Ritchie.....	W-6527.....	6045
Indian Resource Policy Advisor...	S. J. Houston.....	W-6529.....	5201
Clerk Steno.....	S. W. Ko.....	W-6528.....	5201
Senior Indian Land Claims			
Researcher.....	D. T. McNab.....	W-6526.....	5201
Indian Land Claims Researcher....	L. C. Hansen.....	W-6530.....	5201
Indian Land Claims Researcher....	D. J. Bourgeois.....	W-6530.....	5201
Indian Land Claims Researcher....	D. L. Rankin.....	W-6530.....	5201
Clerk Steno.....	P. Williams.....	W-6520.....	5201

Lands and Waters Group

CONSERVATION AUTHORITIES AND
WATER MANAGEMENT BRANCH

Section 6, 5th Floor, Main Office Telephone (416) 965-6285

Branch Director.....	M. R. Garrett.....	W-5620.....6287
CONSERVATION AUTHORITIES SECTION		
Manager.....	R. D. Hunter.....	W-5620.....6285
Supervisor, Water and Related		
Land Management.....	G. S. Sardesai.....	W-5620.....6275
Planning Systems Co-ordinator....	T. E. Farrell.....	W-5620.....6286
Supervisor, Program		
Implementation and Evaluation....	G. W. Price.....	W-5620.....6285
Head, Conservation and		
Recreation Land Mgmt. Program..	R. J. Dickie.....	W-5620.....1573
Financial Services Co-ordinator	(Vacant).....	W-5620.....7694
Special Employment Co-ordinator	Mrs. S. E. Court.....	W-5641.....1799
Librarian.....	Miss A. Perrigo.....	W-5641.....4481
Administrative Assistant.....	Mrs. D. Green.....	W-5620.....6270
TECHNICAL SERVICES SECTION		
Manager.....	R. B. Chang (acting).....	W-5620.....6295
Supervisor, Streamflow		
Forecast Centre.....	P. N. Gryniowski.....	W-5636.....6292
Head, Hydrometeorological Unit	R. A. Fox.....	W-5636.....6293
Flood Emergency Co-ordinator..	L. J. Balogh.....	W-5636.....6277
Senior Policy Advisor,		
Water Management.....	R. P. Milligan.....	W-5620.....6281
Supervisor, Models and		
Consultative Services.....	R. M. Odell (acting).....	W-5620.....1271
Head, Model Development.....	J. Y. Ding.....	W-5641.....1271
Head, Coastal Zone Management..	D. L. Strelchuk.....	W-5620.....1271
Flood Damage Reduction Program		
Co-ordinator.....	Mrs. C. T. Kowalyk.....	W-5620.....6281

GRANTS TO CONSERVATION AUTHORITIES
UNDER THE CONSERVATION AUTHORITIES ACT

in years ending March 31

Year	Administration	Water and Related Land Mgmt.	Conservation and Recreation Land Mgmt.	Lake Ontario Waterfront	Total
1980	\$4,756,983	\$20,466,353	\$3,404,736	\$1,530,000	\$30,158,072
1981	5,202,220	27,724,128	3,436,411	1,500,342	37,863,102
1982	5,517,581	26,496,443	2,953,315	1,469,780	36,437,119
1983	6,591,399	26,693,614	3,130,218	1,574,000	40,989,231
1984	7,098,874	26,852,944	3,751,372	-	37,703,190

AVIATION AND FIRE
MANAGEMENT CENTRE

Box 310, Sault Ste. Marie, Ontario P6A 5L8
Telephone (705) 942-1800 Telex 067-77166, 067-77134

Director.....	J. F. Goodman.....	(705) 942-1800
Co-ordinator, Management & Planning.....	G. E. Doan.....	1800
Finance and Administration Spvr..	W. A. Sinclair.....	1800
Purchasing Officer.....	E. M. Esson.....	1800
Fire Management Section		
Assistant Director, Fire.....	R. G. Elliott.....	1800
Provincial Fire Operations.....	J. G. Minor, Spvr.....	1800
Research & Development.....	R. J. Drysdale, Spvr.....	1800
Fire Management Education		
Co-ordinator.....	R. B. Little.....	1800
Assistant Director, Air.....	R. Kincaid.....	1800
Chief Pilot.....	A. L. Stewart.....	1800
Maintenance Superintendent.....	G. Willoughby.....	1800
Assistant Supt. Maintenance		
Airframe Section.....	(vacant).....	1800
Engine Section.....	P. F. Holder.....	1800
Quality Control Inspector.....	J. S. Denley.....	1800
Communications Supervisor.....	H. Kling.....	1800
Flight Ops. Officer		
Malton Airbase.....	W. C. Clarke.....	(416) 678-1172

FOREST FIRE RECORD

Areas in hectares

Year	Damage \$	Private Property Damage \$	Area Burned Over			Number of Fires	Area per Fire
			Crown	Private	Total		
1917	-	-	-	-	155,466	1,110	140
1918	-	-	-	-	12,210	965	12
1919	-	-	-	-	373,186	1,780	210
1920	-	-	-	-	145,222	1,287	113
1921	-	-	-	-	303,326	1,269	239
1922	-	-	-	-	140,099	1,021	151
1923	-	-	-	-	857,995	1,343	639
1924	-	-	-	-	55,091	851	69
1925	-	-	-	-	76,705	1,149	67
1926	-	-	26,664	9,100	35,764	1,110	32
1927	-	-	9,216	5,248	14,464	924	16
1928	-	-	39,026	1,598	40,624	536	76
1929	-	-	246,353	6,836	253,189	1,550	163
1930	-	-	144,688	143,371	288,059	1,402	206
1931	-	-	42,843	13,120	55,963	1,851	30
1932	-	-	253,558	21,232	274,790	2,073	133
1933	-	-	131,537	10,086	141,623	1,919	74
1934	-	-	64,891	15,493	80,384	1,568	51
1935	-	-	74,090	27,309	101,439	1,309	77
1936	-	-	466,957	44,741	511,698	2,264	226
1937	-	-	81,701	9,251	90,952	1,453	63
1938	-	-	38,918	17,028	55,946	1,292	43
1939	-	-	10,558	1,218	11,776	961	12
1940	-	-	40,869	8,346	49,215	1,014	49
1941	-	-	109,991	159,751	269,742	1,265	213
1942	-	-	31,448	14,571	46,019	1,224	38
1943	-	-	13,543	7,831	21,374	624	34
1944	-	-	29,635	38,713	68,348	1,137	60
1945	-	-	7,283	12,348	19,631	966	20
1946	-	-	18,072	12,995	31,877	1,739	18
1947	-	-	15,416	18,591	34,007	1,393	24
1948	-	-	345,917	65,806	411,723	2,036	202
1949	-	-	16,427	7,880	24,307	1,834	13
1950	55,148	103,682	5,343	9,541	14,884	985	15
1951	389,447	56,389	39,118	1,854	40,972	904	45
1952	29,504	31,347	2,940	2,087	5,027	1,095	4
1953	393,874	81,778	18,016	5,782	23,508	1,520	16
1954	406,241	15,650	14,615	7,518	22,133	881	25
1955	3,591,680	184,940	150,118	10,309	160,427	2,252	71
1956	3,068,152	22,319	89,768	1,777	91,545	1,017	90

Year	Damage \$	Private Property Damage \$	Area Burned Over			Number of Fires	Area per Fire
			Crown	Private	Total		
1957	463,059	113,751	9,814	9,065	18,879	1,671	11
1958	311,503	97,036	10,337	4,496	14,833	1,558	10
1959	22,041	20,757	1,044	1,093	2,137	1,029	2
1960	438,094	56,442	11,813	888	12,701	956	13
1961	31,989,802	152,639	477,894	1,549	479,433	1,305	367
1962	74,748	99,165	3,069	2,517	5,586	1,521	4
1963	706,888	39,932	16,467	6,251	22,718	1,885	12
1964	500,296	19,792	9,090	2,291	11,381	1,829	6
1965	386,850	254,105	6,068	1,987	8,055	1,218	6
1966	71,521	49,457	3,421	2,413	5,834	1,921	3
1967	1,353,919	87,638	23,768	1,930	25,698	1,465	17
1968	4,174	54,146	1,078	2,751	3,829	1,219	3
1969	134,756	4,623	1,813	669	2,482	901	3
1970	1,323,041	28,815	-	-	23,527	1,239	18
1971	462,064	75,875	-	-	14,649	1,790	8
1972	1,081,876	47,446	-	-	32,029	1,604	20
1973	11,944	121,900	2,417	1,190	3,607	1,111	3
1974	12,063,428	239,384	522,641	1,346	523,987	1,625	323
1975	683,726	340,414	11,226	5,630	16,856	3,146	5
1976	26,839,738	930,514	536,529	7,578	544,107	3,985	136
1977	11,190,900	252,565	411,752	4,564	416,316	2,049	203
1978	165,267	139,386	7,040	483	7,523	940	8
1979	2,310,161	60,032	63,322	393	63,715	1,564	41
1980	72,094,096	3,254,443	524,893	35,847	560,740	1,779	315
1981	9,171,418	60,906	173,479	5,994	179,473	1,656	108
1982	116,695	71,068	2,555	1,337	3,892	1,396	3
1983	15,230,649	352,210	442,156	1,499	443,655	2,244	198

1983 FOREST FIRES BY DISTRICT

District	Number of Fires	Hectares Burned Over	ha per Fire
Dryden	74	350.8	4.7
Fort Frances	48	648.9	13.5
Ignace	48	35.6	.7
Kenora	146	85,090.6	582.8
Red Lake	191	227,720.6	1,192.3
Sioux Lookout	171	51,401.7	300.6
Atikokan	36	5.5	.2
Geraldton	107	73,216.0	684.3
Nipigon	94	572.5	6.1
Terrace Bay	46	88.4	1.9
Thunder Bay	91	110.9	1.2
Chapleau	39	984.0	25.2
Cochrane	25	163.8	6.6
Gogama	22	326.5	14.8
Hearst	28	12.3	.4
Kapuskasing	24	25.5	1.1
Kirkland Lake	24	44.1	1.8
Moosonee	14	1,809.6	129.3
Timmins	12	13.0	1.1
Blind River	47	72.8	1.5
Espanola	46	21.5	.5
North Bay	76	102.9	1.4
Sault Ste. Marie	31	39.9	1.3
Sudbury	218	175.3	.8
Temagami	46	19.3	.4
Wawa	52	65.4	1.3
Algonquin Park	53	40.0	.8
Bancroft	32	48.3	1.5
Bracebridge	50	35.7	.7
Minden	57	94.8	1.7
Parry Sound	96	81.7	.9
Pembroke	66	39.6	.6
Carleton Place	20	12.7	.6
Tweed	86	174.5	2.0
Huronias	12	5.9	.5
Lindsay	8	3.1	.4
Owen Sound	8	.9	.1
TOTAL	2,244	443,654.6	197.7

1983 FOREST FIRES BY MONTH

Month	Number of Fires	Hectares Burned Over	ha per Fire
March	16	25.4	1.6
April	112	285.2	2.6
May	170	959.5	5.6
June	290	71,086.3	245.1
July	601	22,145.4	36.9
August	743	288,528.6	388.3
September	302	60,607.0	200.7
October	10	17.2	1.7
TOTAL	2,244	443,654.6	197.7

DETECTION OF FOREST FIRES

Agencies	1978	1979	1980	1981	1982	1983
Towers	0	0	1	0	0	0
Ministry Aircraft	136	420	484	394	230	595
Total Organized Detection	136	420	485	394	230	595
Public	750	875	1,026	1,062	1,038	1,277
Other Aircraft	54	269	268	200	128	372
Total Random Detection	804	1,144	1,294	1,262	1,166	1,649
Total Fires	940	1,564	1,779	1,656	1,396	2,244
Percentage Organized Detection	14	27	27	24	17	27

SIZES OF FOREST FIRES

Area Burned Over	1983
Up to .16 hectares	1,173
Over .16 to 4.0 hectares	844
Over 4.0 to 40.5 hectares	120
Over 40.5 to 202.3 hectares	33
Over 202.3 hectares	74
Total Fires	2,244

PROSECUTIONS

Actions re: Forest Fires	1978	1979	1980	1981	1982	1983
Prosecutions	27	24	178	46	72	89
Convictions	27	14	171	40	68	82

CAUSES OF FOREST FIRES - I

General Causes	1978	1979	1980	1981	1982	1983
Recreation	359	407	239	493	517	494
Resident	91	90	232	150	224	181
Incendiary	35	24	34	59	39	48
Railways	147	169	233	153	160	161
Industry (Forest)	19	21	26	36	11	36
Industry (Other)	21	28	15	38	22	25
Miscellaneous (Known)	87	101	160	209	156	178
Unknown	16	28	47	33	30	31
Lightning	165	696	793	485	237	1,090
Total Fires	940	1,564	1,779	1,656	1,396	2,244

CAUSES OF FOREST FIRES - II

Source of Ignition	1978	1979	1980	1981	1982	1983
Smoking Materials	171	212	173	285	323	250
Camp Fires	186	186	117	251	243	274
Matches	80	65	87	109	105	94
Fireworks	1	1	-	2	1	2
Explosives	-	-	-	2	-	1
Fusee	2	12	4	10	9	3
Prescribed Burning	2	3	-	3	3	2
Dump Ashes, Coals	5	/	/	6	9	7
Burning Grass	17	23	74	46	73	38
Burning Brush	39	22	35	36	37	52
Burning Rubbish	15	13	38	17	44	31
Burning Garbage Dump	8	18	33	15	23	34
Burning Bulldozed Pile	-	2	3	4	-	3
Burning Sawdust Pile	-	2	1	2	2	-
Burning Ties	11	10	14	16	19	9
Burning Right-of-Way	3	5	9	10	20	9
Locomotive, Diesel	39	37	48	38	27	35
Locomotive, Steam	-	-	-	-	-	-
Brake Shoe	66	64	101	47	44	61
Overheated Journal Box	-	2	6	2	-	2
Rail Grinding	-	-	-	-	-	13
Power Saw	1	1	7	7	2	3
Mechanical Equip. (Other)	30	18	34	49	34	30
Mechanical Equipment (Scarification)	-	-	-	-	-	9
Power Line (Short)	15	15	17	21	15	32
Sparks from Chimney	-	3	2	-	2	1
Sparks from Burner	1	3	2	1	1	1
Structural Fires	11	9	10	11	11	16
Miscellaneous (Known)	19	22	51	54	23	26
Unknown	54	113	114	129	91	116
Lightning	164	695	792	483	235	1,090
Total Fires	940	1,564	1,779	1,656	1,396	2,244

CAUSES OF FOREST FIRES - III

Responsible Groups	1978	1979	1980	1981	1982	1983
RECREATION						
Fishermen	110	138	81	184	158	161
Hunters	69	13	4	25	16	13
Canoeists	17	27	13	23	45	37
Campers	55	40	41	48	61	69
Picnickers	7	11	10	10	14	20
Berry Pickers	48	98	39	105	141	91
TRAVELLERS						
Car Passengers	38	39	70	96	76	61
Hikers	17	22	10	28	25	28
Train Passengers	-	2	-	1	-	-
Guided Parties	1	-	1	2	2	-
RESIDENTS						
Farmers	14	11	27	18	26	26
Rural Residents	47	47	116	88	138	103
Urban Residents	4	5	15	8	12	13
Private Cottagers	27	18	45	32	34	44
Resort Owners	1	1	-	5	2	-
Indians (on Reserves)	5	15	21	16	14	34
VOCATION						
Trappers	2	-	-	1	-	-
Prospectors	-	2	-	2	1	2
Timber Cruisers (not MNR)	-	-	-	-	-	-
Survey Parties	-	2	-	-	-	-
Military	1	-	-	1	1	-
EMPLOYEE OF						
Woods Industry	16	21	21	31	12	33
Mining	1	1	2	9	1	4
Pipeline	-	-	-	-	-	-
Hydro	4	5	3	3	2	4
Telephone	1	-	1	1	-	1
Highway or Road	-	3	2	1	1	1
R. R. Section Crew	15	8	24	22	39	25
R. R. Train Crew	21	9	32	24	24	21
R. R. Work Crew	111	147	167	102	94	110
Other Industry	9	6	12	17	12	9
Natural Resources	5	7	10	34	17	6
Other Prov. Government	1	-	-	1	-	1
Federal Government	1	1	-	-	-	1
Municipality	-	8	5	3	6	5
MISCELLANEOUS						
Children	48	49	60	77	68	76
Youth Camps	-	-	1	3	-	6
Miscellaneous (Known)	28	26	50	40	24	66
Unknown	51	87	103	112	94	83
Total Human-Caused Fires	775	869	986	1,173	1,160	1,154
Percentage of All Fires	82	56	55	71	83	51

AIR SERVICE SUMMARY - I

Hours flown in years ending March 31

Year	Fire Ranging	Timber	Fish and Wildlife	Surveys	Lands	Parks
1979	3,340	1,290	4,731	182	735	662
1980	2,000	1,650	2,500	345	1,000	600
1981	3,000	1,674	2,473	342	1,065	609
1982	1,973	1,760	2,600	360	1,120	640
1983	3,037	1,670	2,460	425	1,217	530
Total 1924-83	242,303	40,593	112,111	3,875	17,612	14,286

Year	Research	Inter- Ministry	Photo	Mercy Flights	Misc.	Total
1979	105	2,652	578	25	364	14,633
1980	400	1,550	550	30	4,525	15,150
1981	380	1,372	621	19	3,662	15,217
1982	400	1,647	656	58	4,789	16,003
1983	456	1,885	640	13	2,855	15,845
Total 1924-83	10,339	33,570	7,542	1,894	175,617	660,399

AIR SERVICE SUMMARY - II

in years ending March 31

Year	Mercy Flights	Passengers Carried	Loads Carried Tons	Metric Tons
1979	3	27,937	806.74	888
1980	13	27,336	1,023.04	1,132
1981	10	25,480	801.06	883
1982	28	28,485	988.00	1,089
1983	8	30,267	2,069.17	2,280

ADMINISTRATION DIVISION

Room W-6345, Main Office Telephone (416) 965-7106

Assistant Deputy Minister.....	M. Mogford.....	W-6345.....7106
Administrative Assistant.....	Mrs. W. Paquette.....	W-6344...3-2005
Secretary.....	Mrs. E. Lynch.....	W-6345.....7106
Finance and Administration Group		
Executive Co-ordinator.....	D. J. Johnstone.....	W-6347.....6148
Affirmative Action		
Program Co-ordinator.....	J. Mizanski (acting)....	W-6441.....5663
Communications Services Branch		
Director.....	T. Coleman.....	W-5352.....3315
Personnel Services Branch		
Director.....	H. B. Farrant.....	W-4530.....3825
Legal Services Branch		
Director.....	B. G. Jones.....	W-6420.....2748
Management, Planning and Analysis Branch		
Director.....	P. Bryant.....	W-6350.....4143

Administration Division

COMMUNICATIONS SERVICES
BRANCH

Room W-5340, Main Office Telephone (416) 965-2756

Branch Director.....	T. E. Coleman.....	W-5352...5-3315
Secretary.....	Miss M. Goh.....	W-5340...5-3315
Communications Policy Co-ordinator	P. Andrews.....	W-5340...5-2756
Senior Communications Planner....	G. Merchant (acting)....	W-5441...3-2958
Northern Ontario Communications Co-ordinator.....	K. Robertson.....	W-5340...5-2756
Information Services Section....	Ms. V. Chavossy, Mgr....	W-5340...5-2756
French Language Policy.....	R. Bedard.....	W-5340...3-2026
French Language Writer.....	F. Blais.....	W-5340...3-2026
Writing Co-ordinator.....	Ms. M. Welch.....	W-5340...3-2756
Media Relations Officer.....	C. Ross.....	W-5340...5-2756
Magazine Editor.....	Mrs. A. Erland.....	W-5340...5-2758
Senior Travel Counsellor.....	Ms. C. Mahoney (acting)..	W-3304...5-3081
Fisheries Information.....	Mrs. K. Jones.....	W-3304...5-7883
Wildlife Information.....	Mrs. D. Pearson.....	W-3304...5-4251
Creative Services Section.....	W. Yetman, Mgr.....	W-5440...5-2780
Secretary.....		W-5440...5-2780
Exhibits & Displays Unit.....	Mrs. E. H. Brown, Spvr..	W-5440...5-2780
Exhibits Assistant.....	Mrs. S. Cole.....	W-5440...5-2780
Publications Services Unit.....	J. R. Grayston (acting)..	W-5440...5-2780
Publications Editor.....	Ms. M. Reid.....	W-5440...5-2780
Graphic Designer.....	A. Gokhan.....	W-5440...5-2780
Audio Visual Unit.....	A. Campeau, Spvr.(acting)	W-5440...3-1325
Photographers.....	W. Lanning.....	W-5440...3-1325
	Miss H. Bickle.....	W-5440...3-1325
Photo Library.....	Miss P. Hancock.....	W-5341...5-2758
Film & Audio-visual Consultant.	L. Walton.....	W-5440...3-1325
Advertising & Marketing Unit		
Co-ordinator.....	Ms. P. Purves.....	W-5441...3-2956
Advertising Officer.....	C. Smith.....	W-5441...3-2957

Administration Division

PERSONNEL SERVICES BRANCH

Room W-4520, Main Office Telephone (416) 965-3825

Branch Director.....	H. B. Farrant.....	W-4530...3825
M.O.S.S. Unit		
Manager.....	E. Polonoski.....	W-4601...7240
Staffing Policy & Branch Administration		
Manager.....	Mrs. E. Cardwell.....	W-4531 3-2692
Human Resources, Planning & Development		
Manager.....	R. Brayshaw.....	W-4422...1468
Compensation & Staff Relations		
Manager.....	R. Gordon.....	W-4528...6091
Occupational Health & Safety Section		
Manager.....	A. B. Shipston.....	W-5645...2735

PERSONNEL SERVICES BRANCH

Total Staff as of March 31, 1984

	Regular	Probationary	Unclassified	Total
Main Office	859	28	401	1,288
Field Office	3,089	21	1,200	4,310
TOTAL	3,948	49	1,601	5,598

Total Number of Positions	4,339
Total Number of Staff	3,997
Total Number of Vacancies	342
New Employees Hired 1983/84	57

Management Staff	1,014
Executive Staff	42
Bargaining Unit Staff	2,900
Position Excluded Staff	41

Total	3,997
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Deceased	11
Transferred	18
Released	1
Resigned	85
Dismissed	2
Retired	156

Total	273
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STAFF SUMMARY

at March 31, 1984

	1979	1980	1981	1982	1983	1984
Regular Staff	3,919	4,088	4,060	4,093	4,163	3,948
Probationary Staff	456	341	322	203	141	49
Unclassified Staff	1,698	1,938	1,636	1,565	1,380	1,601
TOTAL	6,073	6,367	6,018	5,867	5,684	5,598
Main Office Staff	930	917	880	863	917	887
Field Office Staff	3,445	3,512	3,502	3,439	3,387	3,110
New Employees	862	316	306	140	160	57
Deceased	8	11	10	9	12	11
Superannuated	97	89	99	45	78	156
Transferred	32	38	1	36	17	18
Resigned	146	199	165	81	73	85
Dismissed	0	3	3	1	1	2
Released	4	1	5	0	1	1
Miscellaneous	0	0	29	0	1	0
Total Separations	287	341	312	172	183	273
Junior Rangers	1,968	1,800	1,736	1,736	1,636	1,716

MANAGEMENT GROUPS

Administrative	226
Clerical	12
Operational	15
Professional	273
Technical	488

Total	1,014
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Executive Compensation Plan	42
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Position Excluded	41
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BARGAINING UNIT CATEGORIES

Administrative Services	74
Scientific & Professional	432
Technical Services	1,315
Office Services	331
Clerical Services	449
Maintenance Services	237
General Operational Services	62

Total	2,900
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Administration Division

LEGAL SERVICES BRANCH *

Room W-6420, Main Office Telephone (416) 965-2748

Director (acting).....	B. G. Jones.....	W-6420.....2748
Solicitors.....	S. B. Campbell.....	W-6420.....2748
	C. L. Cottle.....	W-6420.....2748
	M. M. Crystal.....	W-6420.....2748
	S. A. Klein.....	W-6420.....2748
	L. A. Low.....	W-6420.....2748
	C. E. Mansfield.....	W-6420.....2748
	D. A. Pigeon Bernotas...	W-6420.....2748
	J. Skala.....	W-6420.....2748
	T. N. Trow.....	W-6420.....2748
Prosecutions Officer.....	M. N. K. Toor.....	W-6420.....2748

* Legal Services Branch was transferred to the Attorney General on April 1, 1973, and was seconded to the Minister of Natural Resources on the same date.

LEGAL SERVICES

ending March 31, 1984

Regulations Prepared and Processed	Orders in Council	Legal Agreements
33	665	370

Note: The above figures are approximate.

LEGISLATION

The Acts administered by the Ministry are as follows:

LANDS AND WATERS GROUP

THE BEDS OF NAVIGABLE WATERS ACT (sometimes referred to as the "Cochrane Act") is declaratory legislation relating to title in the beds of navigable waters. It followed the decision in the 1911 case of Keewatin Power versus The Town of Kenora. By the Act, the beds are deemed not to have passed to the grantee of bordering Crown land in the absence of an express grant.

THE ONTARIO GEOGRAPHIC NAMES BOARD ACT provides for the establishment of a Geographic Names Board for Ontario having the duty to gather information respecting the names of places and geographical features, make recommendations thereon, collaborate with the Canadian Permanent Committee on Geographic Names, and provide information to government departments, etc. The Minister may approve a recommended name and thereupon it shall be used by all government departments and agencies in the preparation of maps and other publications.

THE ONTARIO HARBOURS AGREEMENT ACT, 1962-63, confirms on behalf of Ontario the agreement between Ontario and Canada establishing the harbours which were public harbours at Confederation, providing that mines and minerals therein are administered by Ontario and confirming grants and quit claims listed therein. The federal harbours are Amherstburg, Belleville, Brockville, Chatham, Collingwood, Fort William, Gananoque, Goderich, Kincardine, Kingston, Kingsville, Leamington, Oshawa, Owen Sound, Penetanguishene, Port Arthur, Port Burwell, Port Hope, Port Stanley, Prescott, Rondeau Bay, Sarnia, Sault Ste. Marie, Southampton, Toronto, Whitby and Windsor.

THE PUBLIC LANDS ACT provides for: (1) A Public Agricultural Lands Committee to recommend on agricultural lands and their settlement, replacing the regulations on this subject; (2) The disposition of Crown land for a variety of purposes by sale, lease or licence, and by auction or tender; (3) The management of Crown land by the Ministry by zoning for land use, setting apart for public use, research, etc., and through agreements with municipalities on beaches and water lots; (4) The administration of roads on Crown lands including the designation of public forest roads and agreements with occupiers of private forest roads respecting the use by the public of private forest roads; (5) The administration and control of the construction and maintenance of dams; (6) The granting of water powers and privileges.

THE SURVEYORS ACT deals with the Association of Ontario Land Surveyors and the rules governing membership and conduct. The Minister or his appointee and the Surveyor-General are members of the Council of Management.

THE SURVEYS ACT defines the system of surveys and the rules for surveyors. The Minister orders surveys made on his volition or upon application to settle disputes or lost lines, etc.; and hearing evidence, he confirms the surveys, with or without amendment. His decision is subject to appeal to a judge of the Supreme Court.

THE NORTH GEORGIAN BAY RECREATIONAL RESERVE ACT, 1962-3, establishes the North Georgian Bay Recreational Reserve and provides for the planning and development thereof and the appointment of a committee to advise the Minister thereon.

THE MINING ACT with respect to: the administration of public lands for mining purposes; the issuing of licences and leases relating to exploration and drilling for, and the production of, minerals and oil and natural gas; the staking and recording of mining claims; and the rights of licensees and lessees under the Act. An acreage tax is levied under this Act. (See under Mineral Resources Group).

THE BEACH PROTECTION ACT prohibits the removal of sand from the bed, bank, beach, shore or waters of any lake, river or stream in Ontario except under the authority of a licence issued under the Act. Licencees may be required to pay a fixed sum per yard of sand removed from property of the Crown.

THE CANADA COMPANY'S LAND ACT, 1922, empowers the Crown to sell and convey to purchasers of lands from the Canada Company the mineral rights in the lands.

THE LAKES AND RIVERS IMPROVEMENT ACT deals with: the construction, repair and use of dams; timber driving; and timber slide companies and tolls. The Minister is charged with the responsibility of settling disputes between conflicting users under certain circumstances. An officer may be appointed to regulate the use of waters or works.

THE CONSERVATION AUTHORITIES ACT provides for the establishment of conservation authorities for the purpose of establishing and undertaking in the area over which they are given jurisdiction, programs designed to further the conservation, restoration, development and management of natural resources other than gas, oil, coal and minerals.

FOREST RESOURCES GROUP

ARBOREAL EMBLEM ACT, 1984 adopts the Eastern White Pine as the arboreal emblem of the Province of Ontario.

THE CROWN TIMBER ACT enables the granting of the following four types of licences to cut Crown timber, a licence based on a call for tenders, a licence to salvage timber, a licence for areas that do not exceed 64.75 hectares (160 acres), and a licence approved by Order in Council for large areas.

The act also enables the Minister to enter into comprehensive forest management agreements with members of the forest industry to ensure that forests under the agreements are harvested and regenerated to produce successive crops of timber on a sustained yield basis.

Crown Management Units may be established under the Act and agreements entered into for the supply of Crown timber from such units. Under this arrangement, the party to the agreement does not have exclusive rights in a specific area until a licence is granted to him to fill his requirements for an operating season.

Crown dues and area charge are fixed by the regulations.

Other subjects dealt with are: forest management, operating and annual plans; examination of scalers and licensing of scalers; licensing of mills; penalties for wasteful practices, unauthorized cutting, removal of timber for scaling, and other violations; and protection of the Crown's interests through seizure of timber and a statutory lien for Crown charges.

THE FORESTRY ACT. Under this Act: (1) The Minister enters into agreements with landowners such as municipalities, conservation authorities and the National Capital Commission (Ottawa) to manage the forest lands; (2) Ministry tree nurseries are established and nursery stock is distributed; (3) Private forest reserves are set up on private lands with the consent of the owner; (4) The Minister, with the approval of the Lieutenant Governor in Council, may establish programs for the encouragement of forestry. At present, a managed forest tax reduction program has been established by the Minister.

THE SETTLERS' PULPWOOD PROTECTION ACT provides for the regulation of the sale and of the price of pulpwood cut from settlers' land.

THE SPRUCE PULPWOOD EXPORTATION ACT provides for the exportation under the authority of an Order-in-Council of unmanufactured spruce pulpwood from lands granted under special Acts which prohibit such export.

THE TREES ACT provides that, with the Minister's approval, municipalities may pass by-laws restricting and regulating the destruction of trees and appoint enforcement officers. Generally, by by-law, municipalities may acquire land for forestry purposes and enter into agreements with the Minister for the management of such lands and related matters.

THE WOODLANDS IMPROVEMENT ACT provides for the Minister to enter into agreements with owners of lands suitable for forestry purposes and situate in a private forest management area for the planting of nursery stock or stand improvement.

THE WOODMEN'S EMPLOYMENT ACT authorizes the appointment of inspectors and the making of regulations respecting conditions in lumber camps. It also provides that Crown timber licensees are responsible for the acts and omissions of their jobbers and subcontractors who carry out operations.

THE WOODMEN'S LIEN FOR WAGES ACT provides a lien and a procedure to enforce such lien for persons performing labour on timber.

THE ALGONQUIN FORESTRY AUTHORITY ACT establishes a Crown corporation known as the Algonquin Forestry Authority to harvest Crown timber in Algonquin Provincial Park and public lands adjacent to the park, to sell the logs and also to carry out such forestry, land management and other programs and projects as the Minister of Natural Resources authorizes.

THE FOREST TREE PEST CONTROL ACT provides for the control of outbreaks of forest tree insects and diseases on private lands.

MINERAL RESOURCES GROUP

THE MINING ACT with respect to: the issuing and administration of exploratory licences and production leases for oil and natural gas on public lands in designated parts of Ontario; processing applications for exemptions from restrictions on foreign processing; refinery licences; and the regulation of mining operations conducted within Ontario except under Part IX. (Also see under Lands and Waters Group.)

THE PITS AND QUARRIES CONTROL ACT provides for the regulation of pit and quarry operations in designated parts of Ontario. Operations in designated areas must be licensed under the Act and are subject to periodic review to assure compliance with the provisions of the Act, the regulations and site plan.

THE PETROLEUM RESOURCES ACT sets forth licensing requirements for various aspects of oil and natural gas exploration, drilling and production and provides for the making of regulations respecting oil and gas conservation and the safe operation of drilling and production facilities.

THE MINING TAX ACT a revenue generating unit which offers incentives to mineral producers for exploration, production and processing in Ontario, imposes a profit tax on Ontario mines. The tax is assessed on the value of output of the mine at the pit's mouth determined in accordance with the provisions of the Act.

THE ONTARIO MINERAL EXPLORATION PROGRAM ACT provides incentives to encourage mineral exploration activities in the province by providing grants/tax credits equal to 25 per cent of eligible exploration expenses to prospectors, non-producing exploration companies and to individual investors and corporations not directly engaged in mining activities in order to stimulate the financing of mineral exploration.

THE INDUSTRIAL AND MINING LANDS COMPENSATION ACT provides for agreements between the owner or operator of a mine and the owner or lessee of any land for payment of compensation for any damage or injury resulting or likely to result to the land or to its use and enjoyment from the operation of the mine.

THE GAS AND OIL LEASES ACT sets out the procedure whereby a lessor under a gas or oil lease may, upon default by the lessee under the terms of the lease, obtain an order declaring the lease void.

OUTDOOR RECREATION GROUP

THE ENDANGERED SPECIES ACT provides for the conservation, protection, restoration and propagation of species of flora and fauna of the Province of Ontario that are threatened with extinction.

THE GAME AND FISH ACT deals with the management of wildlife resources; game animals; game birds (upland); fur-bearing animals; frogs; sale and rearing of game fish; and offences and enforcement. Regulations made under the Act establish open seasons for hunting and trapping; bag limits; Crown game preserves; the licensing of hunters, trappers, guides, persons operating game bird hunting preserves, and persons selling game fish for stocking and human consumption; the regulating of dogs used in hunting, aircraft transporting hunters, and conduct of hunters (hunter safety); and farmer-hunter relations. The Game and Fish Hearing Board was established under the Act on November 15, 1973.

THE FISH INSPECTION ACT is complementary to the Federal Act.

THE FISHERIES ACT (CANADA) Ontario Fishery Regulations are made under this Act. They relate to open seasons for angling and commercial fishing and the licences required. The form of licences and the fees are prescribed under The Game and Fish Act.

THE FISHERIES LOAN ACT provides for loans to persons carrying on the business of commercial fishing or any other business dependent in whole or in part on the taking of fish from waters in which such taking has been prohibited by reason of the contamination of fish resulting from pollution of the water. Provision is made for federal-provincial agreements respecting the sharing of such loans.

THE FRESHWATER FISH MARKETING ACT (ONTARIO) complements the Freshwater Fish Marketing Act (Canada). Through these Acts and the federal-provincial agreement, the Freshwater Fish Marketing Corporation established under the Federal Act is the sole purchaser of commercial fish, as defined in the Federal Act, taken in that part of Ontario designated in the regulations, i.e., that part of Ontario westerly of longitude 86 degrees except the Territorial District of Rainy River but including that part of Lake of the Woods in the Territorial District of Rainy River. Sales to and purchases by persons for their own consumption or for consumption by persons or animals in the course of the purchaser's business are excepted.

THE WILD RICE HARVESTING ACT prohibits the harvesting of rice on Crown land except under the authority of a licence.

THE WOLF DAMAGE TO LIVESTOCK COMPENSATION ACT, 1972, provides for payment of compensation to the owners of livestock killed or injured by wolves.

THE MIGRATORY BIRDS CONVENTION ACT. Open seasons for migratory birds are set under this Act.

THE PROVINCIAL PARKS ACT provides for the establishment of provincial parks and their management and for certain employees having the authority of the O.P.P. in a provincial park. Advisory committees for one or more provincial parks may be appointed by the Minister with the approval of the Lieutenant-Governor in Council. Parks may be classified as a natural environment park, a nature reserve park, a wilderness park, a recreational park, a waterways park, or an historical park. Any of these classes may be zoned with controlled use in zones.

Mining is prohibited in provincial parks except as provided in the regulations. The regulations on mining were revoked in 1956 but rights and interest existing at that time were preserved.

Hunting is prohibited in provincial parks except as provided in the regulations under the Game and Fish Act or where the prohibition is removed by designation of the Lieutenant-Governor in Council under the Provincial Parks Act. This does not apply to the Townships of Bruton and Clyde (added to Algonquin Provincial Park by a Special Act).

Concession leases are granted under the Act. The province calls for tenders for buildings and facilities.

Vehicle admission charge is \$2.50 per day or \$25.00 for the season. Campsite charges are \$6.50 per day, or \$7.00 per day where comfort station facilities are available, and \$8.50 per day for campsites with electrical power. The charge for an extra car on a campsite is \$3.00 per day. On unorganized campsites in park interiors the charge is \$2.00 per person or \$6.50 per interior campsite.

The above fees reflect those charged during peak periods. They may vary, depending on location and time of year.

This Act does not apply to any park under the management of the Niagara Parks Commission, the St. Lawrence Parks Commission or the St. Clair Parkway Commission.

THE WILDERNESS AREAS ACT was passed on March 26, 1959, to preserve areas having some unique feature. Development or utilization of the natural resources in an area more than 260 ha (640 acres) in size is not affected by this Act.

THE PARKS ASSISTANCE ACT provides for the establishment of parks in municipalities or in territory without municipal organization. The Minister may with the approval of the Lieutenant-Governor in Council make grants not exceeding 50 per cent of the cost of acquiring land and developing such parks. The parks established under the Act are to be maintained and operated in a manner complementary to provincial parks.

The following are newly established parks:

Lady Evelyn-Smoothwater Provincial Park, Kesagami Provincial Park, Opasquia Provincial Park, Wabakimi Provincial Park and Woodland Caribou Provincial Park.

AVIATION AND FIRE MANAGEMENT CENTRE

THE FOREST FIRES PREVENTION ACT applies to the seven fire regions set up by regulation. The fire season from April 1st to October 31st, may be extended by regulation. Fire permits are required during the fire season to (a) start fires in a fire region except for fires set out for cooking or warmth or to (b) ignite fireworks in or within 300 m of a forest or woodland. Work permits are required at any time of the year for carrying on any logging, mining, industrial operation or clearing in or within 300 m of a forest or woodland. Areas may be established as restricted fire zones in which fires for cooking or warmth will be restricted to portable stoves and barbecues or as restricted travel zones in which a travel permit will be required except on public roads, cities, towns, villages, police villages, supervised camping grounds and water adjacent thereto. The Minister may declare emergency areas and may make orders for suppression and the safety and evacuation of persons. The Minister may enter into agreements with Canada, any province, any federal or provincial agency or municipality respecting the prevention and control of forest fires. The regulations establish fire precautions.

GENERAL

THE MINISTRY OF NATURAL RESOURCES ACT effective as of April 1, 1972, created the new Ministry of Natural Resources by amalgamating the former Department of Lands and Forests and Department of Mines and Northern Affairs and repealed the provisions of a number of Acts on which the departments depended for administrative authority. Effective October 30, 1973, the Act provides for the appointment of a Mining and Lands Commissioner and advisory committees.

THE LAKE OF THE WOODS CONTROL BOARD ACT, 1922, is complementary to a Federal Act of 1921. It deals with the regulation of the water levels of the Winnipeg River, the English River, Lac Seul and Lake St. Joseph. The Board was created following a report in 1917 by the International Joint Commission which was established under a treaty made in 1909 between the United States and Great Britain. The membership of the Board consists of a Federal representative and one from Manitoba and two from Ontario. One Ontario member is appointed by the Ontario Hydro. The other is R. M. Odell, Head, Consultative Services, Conservation Authorities and Water Management Branch, Ministry of Natural Resources, with R. B. Chang as alternate member.

The Board has the duty to secure severally and at all times the most dependable flow and the most advantageous and beneficial use of the Winnipeg and English Rivers and, for the purpose, to regulate the overflow of:

- (a) Lake of the Woods, to levels recommended by the International Joint Commission as agreed by Canada and the United States;
- (b) Lac Seul, to levels recommended by the Board and approved by the Lieutenant-Governors in Council of Ontario and Manitoba and to regulate the flow into Lac Seul through the Lake St. Joseph diversion.
- (c) Winnipeg River, between its junction with the English River and Lake of the Woods, and the English River between its junction with the Winnipeg River and Lac Seul; and
- (d) Other waters of the watershed of the Winnipeg River as are placed under its jurisdiction by the Governor-General in Council and the Lieutenant-Governors in Council of Ontario and Manitoba.

THE LAC SEUL CONSERVATION ACT, 1928, provides for the execution of an agreement between the Minister of Lands and Forests and the Government of Canada regarding the construction of a conservation dam at the outlet of Lac Seul.

THE OTTAWA RIVER WATER POWERS ACT, 1943, ratifies and confirms an agreement between the Province of Ontario, the Province of Quebec, the Hydro-Electric Power Commission of Ontario and the Quebec Streams Commission respecting the development of water power on the Ottawa River.

THE SEINE RIVER DIVERSION ACT, 1952, confirms the partial diversion of the Seine River and authorizes the completion and operation of the diversion by Steep Rock Iron Mines Limited.

THE NATIONAL RADIO OBSERVATORY ACT, 1962-3, provides for the transfer of administration and control of certain public lands in the Township of White, District of Nipissing, to Canada for the maintenance and operation of a national radio observatory.

THE GANANOQUE LANDS ACT, 1961-2, vests certain lands in the town of Gananoque in the Crown and authorizes the sale of encroachments to adjoining owners for a fee of \$50.00 and the granting of the balance of the land.

THE ALGONQUIN PROVINCIAL PARK EXTENSION ACT, 1960-1, adds the public lands in the Geographic Townships of Bruton and Clyde in the Provincial County of Haliburton to the park, subject to hunting.

THE MINERAL EMBLEM ACT, 1975, adopts the amethyst as the mineral emblem of the Province of Ontario.

THE MANITOBA-ONTARIO LAKE ST. JOSEPH DIVERSION AGREEMENT AUTHORIZATION ACT, 1958, provides for entry by Ontario and The Hydro-Electric Power Commission of Ontario into an agreement with Manitoba and The Manitoba Hydro-Electric Board in respect of the diversion of waters into the Winnipeg River and electrical power generated from such waters in Ontario and Manitoba.

MINING AND LANDS COMMISSIONER

Box 330, 24th Floor, 700 Bay St. Telephone (416) 965-1824
 Toronto, Ontario M5G 1Z6

Commissioner..... G. H. Ferguson, O.C.

Administrative Assistant..... J. K. Kinsella

JUDGEMENTS, ORDERS AND REPORTS

Year	Extensions for Work and Lease	Extensions For Tagging	Special Renewals of Licences	Misc.	Total
1979	858	-	63	73	994
1980	1,046	1	74	60	1,181
1981	1,338	1	73	75	1,487
1982	1,430	-	80	154	1,664
1983	1,411	-	74	119	1,604
1984	1,703	1	85	191	1,980

PROJECTED REVENUE FROM EXTENSION ORDERS

Year	No. of Claims Prior To Default	Amount	No. of Claims Relief from Forfeiture	Amount
1979	8,147	\$40,735	871	\$ 8,710
1980	8,434	42,170	694	6,940
1981	11,957	59,785	1,329	13,290
1982	13,692	68,460	1,801	18,010
1983	13,675	68,380	1,863	18,630
1984	19,960	99,800	3,714	37,140

HEARINGS UNDER STATUTES OF THE MINISTRY

Year	Beach Protection Act	Conservation Authorities Act	Lakes & Rivers Improve- ment Act	Mining Act	Mining Tax Act	Other	Total
1979	-	11	1	9	3	-	24
1980	-	11	1	6	1	-	19
1981	-	4	1	13	-	-	18
1982	-	17	-	36	1	1	55
1983	-	16	1	27	-	-	44
1984	-	12	2	35	-	-	49

MATTERS WITHDRAWN, ABANDONED OR TRANSFERRED TO SUPREME COURT

1979	-	8	-	-	1	-	9
1980	-	12	4	4	1	-	21
1981	-	1	-	3	-	-	4
1982	-	9	-	3	-	-	12
1983	-	3	-	9	-	-	12
1984	-	4	-	6	-	-	10

Administration Division

FINANCE AND
ADMINISTRATION GROUP

Room W-6347, Main Office Telephone (416) 965-6148

Executive Co-ordinator.....	D. J. Johnstone.....	W-6346.....	6148
Secretary.....	.....	W-6346.....	6147

SYSTEMS SERVICES BRANCH

Main Office, Room W-4429 (416) 965-2750

Director.....	J. H. Findeis.....	W-4429.....	2750
Systems Co-ord. Mgr.....	C. K. Moulson.....	W-4426.....	5674
Manager, Data Base Co-ordinator	L. Bailey.....	W-4427...	3-1327
Operations Supervisor.....	D. Trentadue.....	W-5611.....	3794
Major Systems Supervisor.....	L. Davidson.....	W-5611.....	3790
Advanced Technology Systems			
Senior Analyst.....	R. Orawski.....	W-4420...	3-2391
Technical Support Supervisor.....	M. Zillman.....	W-4430...	3-2392

INTERNAL AUDIT SERVICES BRANCH

Room W-4633, Main Office Telephone (416) 965-4087

Branch Director.....	A. A. Ward.....	W-4637.....	4087
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Main Office Audit Section

Audit Manager.....	D. L. Lay.....	W-4634.....	4087
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Northern Audit Section

Box 5000

Thunder Bay, P7C 5G6

Audit Manager.....	N. D. Nurse.....	(807) 475-1211	(IC 844)
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Sault Ste. Marie sub-office

875 Queen Street East

Sault Ste. Marie, P6A 2B3

Senior Auditor.....	W. C. Johnstone.....	(705) 949-1231	(IC 842)
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Southern Audit Section

c/o District Office

Maple, LOJ 1E0

Audit Manager.....	D. A. Dooling.....	(416) 832-2761	Ext. 281
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Administration Division

FINANCIAL RESOURCES BRANCH

Room W-4325, Main Office, Telephone (416) 965-2761

Director.....	M. W. Cox.....	W-4324...5-2761
Secretary.....	M. E. Adkin.....	W-4324...5-2761
Chief Accountant.....	I. A. Nott.....	W-4326...5-2761
Supv. Expenditure Control.....	R. McDougal.....	W-4321...5-1895
Supv. Financial Methods.....	G. Jarzabek.....	W-4328...5-1218
Supv. Financial Policy Dev. ...	E. V. Young.....	W-4340...5-1033
Supv. Financial Reporting & Claims.....	V. Ferrara.....	W-4321...5-1895
Accounting Operations		
Manager.....	L. P. Comeau.....	W-4322...5-2761
Supv. Accounting Section.....	C. Obelnycki.....	W-4441...5-2251
Supv. Accounts Payable Section.	J. T. Tunnicliff.....	W-4303...5-2764
Supv. Licence Issuing Section..	T. Headley.....	W-4342...5-2814
A/Supv. Payroll Section.....	S. Sprung.....	W-4341...5-2766
Supv. Revenue Section.....	S. A. Perry.....	W-4443...5-2770
Financial Planning & Program Evaluation Section		
Manager.....	A. P. Wormwell.....	W-6546...5-7182
Senior Program Officer.....	A. Harris.....	W-6545...5-7409
Planning Officer.....	S. Mathewson.....	W-6545...5-7182
Senior Program Officer.....	A. Ireland-Smith.....	W-6544...5-7182
Program Planning & Budget Section		
Manager.....	D. H. Cope.....	W-6540...5-9052
BILD/Special Empl. Co-ordinator	D. Cherry.....	W-4501...5-7182
Budget Supervisor.....	J. Heywood.....	W-6549...5-9052
Senior Adviser.....	J. Botterill.....	W-6543...5-7086
Group Adviser.....	P. King.....	W-6549...5-7086
A/Group Adviser.....	K. Stahl.....	W-6549...5-7086
Group Adviser.....	D. Sword.....	W-6549...5-7086
A/Division.....	A. M. Teder.....	W-4321...5-1895
Project Co-ordinator, Computerized Work Planning.....	L. Petterson.....	W-6549...5-9052

REVENUE AND EXPENDITURES

in years ending March 31

Year	Budgetary Revenue \$	Budgetary Expenditure \$
1980	202,825,624	279,799,068
1981	275,562,265	349,475,311
1982	160,546,904	363,253,018
1983	135,735,095	374,348,745
1984	149,669,629	407,490,465

LANDS REVENUE

in years ending March 31

Year	Water Power \$	Crown Land Sales \$	Crown Land Rentals \$	Park Rentals & Fees \$	Pits and Quarries Licences \$	Land Use Permits \$
1980	19,279,984	1,899,009	577,784	57,788	116,625	479,869
1981	19,158,930	2,936,644	754,447	131,733	114,125	478,788
1982	20,604,400	2,243,525	947,993	125,483	159,275	558,492
1983	23,613,132	1,690,312	994,362	-	162,750	647,007
1984	25,593,045	1,719,761	959,100	-	165,015	712,854

Year	Assignments & Extension Fees \$	Cons. Authorities Federal Agreements \$	Return of Grants \$	Recovery Prior Years Land Acquisition \$	Misc. \$	Total \$
1980	22,045	133,317	54,228	94,270	98,218	22,813,137
1981	85,131	413,588	69,325	2,243	270,350	24,415,304
1982	16,300	511,589	469,201	103,966	87,549	25,827,773
1983	20,453	1,103,543	148,277	2,791	115,146	28,497,773
1984	22,575	137,594	172,653	38,597	386,148	29,907,342

TIMBER REVENUE

in years ending March 31

Year	Stumpage Charges \$	Timber Area Charges \$	Nursery Tree Sales \$	Agreement Forest \$	Federal Agreement \$	Misc. \$	Total \$
1980	42,729,326	5,471,287	235,525	635,368	26,344	86,385	49,184,235
1981	47,266,552	4,401,176	609,097	282,646	1,885	92,587	52,653,943
1982	38,204,534	4,437,802	818,152	354,783	9,751	68,697	43,893,719
1983	39,137,899	3,435,840	943,801	539,326	-	64,177	44,121,043
1984	46,754,081	4,625,266	606,385	586,724	5,763	67,840	52,646,059

MINING REVENUE

in years ending March 31

Year	Licences and Permits \$	Mining Claims \$	Sale of Mining Lands \$	Rentals \$	Royalties \$
1980	103,787	362,937	6,860	948,112	1,539,814
1981	111,328	639,844	11	847,501	2,380,790
1982	319,952	537,731	3,191	582,818	2,250,102
1983	412,918	528,050	1,375	1,695,196	6,101,775
1984	569,477	661,066	3,003	732,129	4,660,987

Year	Taxes \$	Forfeit- ures \$	Labor- atory Fees \$	Rec. of Prior years Expenditure \$	Federal Agree- ment \$	Total \$
1980	99,674,524	3,330	125,936	31,891	-	102,797,191
1981	161,061,781	4,060	108,408	-	-	165,153,723
1982	55,411,740	2,840	153,161	-	-	59,261,535
1983	26,178,380	1,980	163,410	-	1,187,031	36,270,115
1984	32,544,776	2,700	178,985	-	1,479,939	40,833,062

PROVINCIAL PARKS REVENUE

in years ending March 31

Year	Permits \$	Campsite Permits \$	Concessions Rental \$	St. Lawrence Lic. & Permits \$
1980	971,351	5,325,333	450,018	1,896,935
1981	935,283	5,585,691	477,926	1,931,825
1982	1,215,227	5,519,852	356,984	1,933,584
1983	1,195,392	6,555,071	402,132	-
1984	1,392,446	6,620,918	387,401	-

Year	Federal Agreement \$	St. Clair Pkwy. Commission \$	Misc. \$	Total \$
1980	1,337,144	115,000	100,850	10,196,631
1981	2,448,976	15,000	133,917	11,528,618
1982	1,572,055	18,000	188,964	10,804,666
1983	190,089	1,500	162,470	8,506,654
1984	14,879	-	155,269	8,570,913

FISH AND WILDLIFE REVENUE

in years ending March 31

Year	Non-Res. Angling \$	Other Fishing \$	Commercial Fishing \$	Non-Res. Hunting \$
1980	5,750,812	111,185	104,928	2,260,030
1981	7,513,033	152,757	122,301	1,605,102
1982	7,610,191	156,957	117,419	1,490,490
1983	7,466,134	169,829	148,254	1,382,798
1984	7,256,322	172,716	65,009	1,212,760

FISH AND WILDLIFE REVENUE

Year	Resident Bear \$	Resident Deer \$	Resident Moose \$	Resident Groundhog \$	Res.(Gun) Hunting \$
1980	13,359	1,129,511	1,436,576	74,068	1,502,536
1981	87,738	1,184,553	1,483,473	100,653	1,629,245
1982	122,105	1,296,196	1,375,086	83,677	1,584,495
1983	132,636	1,362,761	1,719,562	78,807	1,580,569
1984	147,866	1,507,761	1,404,361	2,782	1,490,967

Year	Dog \$	Trappers \$	Fur Dealers \$	Hunter Exam Fee \$	Prov. Park Hunting \$
1980	37,179	66,730	8,170	88,797	64,408
1981	76,998	69,635	8,400	90,006	66,088
1982	75,957	65,387	8,950	85,722	53,400
1983	73,258	62,923	9,675	86,178	67,264
1984	72,939	57,252	8,925	59,967	64,712

Year	Misc. Fees & Licences \$	Royalty Game \$	Agreements		Total \$
			Outside Agencies \$	Federal \$	
1980	153,246	931,496	-	266,117	13,999,328
1981	118,488	1,201,461	76,016	291,475	15,877,422
1982	140,728	1,159,433	123,947	361,447	15,911,587
1983	229,813	729,477	165,750	80,254	15,545,942
1984	194,324	669,126	120,829	431,243	14,939,861

OTHER CASH RECEIPTS

in years ending March 31

Year	Sale of Maps, Publications etc. \$	Fire Costs Recovered \$	House Rentals \$	Sale of Buildings \$	Sale of Van and Equip. \$
1980	2,253,723	67,284	452,803	26,840	420,736
1981	2,265,256	651,527	415,824	14,513	1,648,707
1982	2,300,366	670,538	450,197	5,112	479,650
1983	686,651	306,055	411,266	30,012	393,846
1984	634,013	160,740	402,108	6,946	490,149

Year	Con- fiscated Articles \$	Frost Centre \$	Non-Recurring Items and Misc. \$	Board & Lodging \$	Total \$
1980	51,918	245,126	316,672	-	3,835,102
1981	21,714	296,127	378,010	241,577	5,933,255
1982	46,149	340,651	379,107	175,854	4,847,624
1983	59,412	401,061	301,008	204,257	2,793,568
1984	42,695	457,832	403,170	174,739	2,772,392

Administration Division

ADMINISTRATIVE SERVICES BRANCH

Room W-5528, Main Office Telephone (416) 965-2711

Branch Director.....	J. A. Queen.....	W-5528.....	2711
Administrative Technology.....	D. Waller, Chief.....	W-5525.....	4600
Analysis Unit.....	.....	W-5525.....	4600
Forms and Records Management...	.....	W-5422.....	3822
Operations Analysis.....	R.E. Armstrong, Chief...	W-5526.....	3317
Administrative Services Analyst	Ms. S. Fasken.....	W-5520.....	4600
Fleet & Insurance.....	L. Krol.....	W-5504.....	1255
Supply Analysis.....	Mrs. L. Wright.....	W-5520.....	4600
Contracting Specialist.....	.....	W-5520.....	4600
Contracts Clerk.....	D. Allison.....	W-5520.....	4600
Purchasing Specialist.....	W. Howson.....	W-5520.....	4600
Services.....	T. Pierro, Chief.....	W-5527.....	4600
Purchasing.....	Ms. M. Marcel, Mgr.....	W-5533.....	1601
Facilities Development.....	P. Coghill, Mgr.....	W-5423.....	4645
Facilities.....	J. Petersen.....	W-5423.....	4645
Accommodation Services.....	S. Fenton.....	W-5423.....	4645
Support Services.....	H. L. Bembridge, Mgr....	W-5302.....	5134
Office Services.....	.....	W-5302.....	5134
Vehicle & Assets Officer.....	L. Burchat.....	W-5302.....	5134
Central Supply Warehouse.....	D. Sibley, Spvr.....	.....	1286
(51 Esander Drive, Toronto)			
Conferences, Hospitality			
Services.....	M. D. Cantelon.....	W-5301.....	6166
Copy Centre Services.....	.....	W-5501.....	6790
Mail Services.....	.....	W-5310.....	2778
Telex & Telecopier Services..	.....	W-5312.....	2784

VEHICLES AND EQUIPMENT IN SERVICE

in year ending March 31, 1984

Type	Number in Operation
Subcompact Cars and Station Wagons	6
Compact Cars and Station Wagons	177
Full-size Cars and Station Wagons	81
Standard and Extended Pickups	819
Four-wheel Drive Vehicles	281
Crew Cabs	84
Passenger Vans and Personnel Carriers	146
Buses	7
Cab and Chassis - 10,000 GVW	89
Cab and Chassis - over 10,000 GVW	126
Cab and Chassis - specialized bodies	26
TOTAL	1,842
Motorcycles	49
Trailers (boat and equipment)	985
Trailers (refrigerated)	26
Snowmobiles	598
Tractors	319

Regions and DistrictsNORTHWESTERN REGION

Box 5160, 810 Robertson St., Kenora Ont. P9N 3X9
 Phone (807) 468-3111

D. R. Johnston.....	Regional Director
W. J. Straight.....	Deputy Reg. Director
D. R. Fortner.....	Deputy Reg. Director
G. N. McGeachy.....	Admin. Co-ordinator
A. G. Mathews.....	Forester
G. K. Winterton.....	Biologist
G. N. Warner.....	Safety Officer
R. C. Beard.....	Mineral Resources Co-ordinator
R. H. Hanlan.....	Senior Planner
D. M. C. Lindstrom.....	Operations & Services Co-ordinator
K. J. Chambers.....	Resource Development Co-ordinator
W. Kostantin.....	Personnel Officer

Fire Management Centre

R. J. Kincaid, Box 850, Dryden... Phone (807) 937-4402

Dryden Tree Nursery

T. R. Myland, Box 90, Wabigoon... Phone (807) 938-6326

KENORA DISTRICT

Box 5080, 808 Robertson St., Kenora, Ont. P9N 3X9.
 Phone (807) 468-9841

D. B. McGregor.....	District Manager
R. G. McCue.....	Administration
D. Philippi.....	Field Services
W. H. Mills.....	Forests
T. J. Lunny.....	Lands
R. W. Paterick.....	Parks
C. E. Blackburn.....	Geologist
M. E. Lemay (acting).....	Mining Recorder

FORT FRANCES DISTRICT

922 Scott Street, Fort Frances, Ont. P9A 1J4
 Phone (807) 274-5337

J. K. Cleaveley.....	District Manager
T. M. McWhirter.....	Administration
S. E. Cameron.....	Parks & Operations
E. J. Swift.....	Fish & Wildlife
A. P. Matice.....	Forests
C. E. Horne.....	Land Management
A. P. Colfer.....	Pilot

SIOUX LOOKOUT DISTRICT

Box 309, Sioux Lookout, Ont. P0V 2T0
Phone (807) 737-1140

A. J. Stewart.....	District Manager
W. L. Bertrand.....	Administration
H. D. Morrison.....	Operations/Parks
A. A. Martin.....	Fish & Wildlife
B. A. Ferguson.....	Forests Management
F. E. Brown.....	Land Management
D. A. Janes.....	Geologist
A. Hanson.....	Mining Recorder

DRYDEN DISTRICT

Box 730, Ontario Govt. Bldg., Dryden, Ont. P8N 2Z4
Phone (807) 223-3341

G. M. Tupling.....	District Manager
J. A. Hamilton.....	Administration
J. A. MacDonald.....	Parks & Operations
F. D. Kennedy.....	Forest Management
H. Gibbard.....	Fish & Wildlife
E. M. Wires.....	Land Management

RED LAKE DISTRICT

Box 5003, Red Lake, Ont. P0V 2M0
Phone (807) 727-2253

E. W. Everley.....	District Manager
B. A. Larkin.....	Administration/Operations
B. A. Sandilands.....	Fish & Wildlife
P. R. Gagnon.....	Forests
E. R. Keast.....	Land Management/Parks
M. J. Lavigne.....	Geologist
A. S. Rivett.....	Mining Recorder

IGNACE DISTRICT

Box 448, Ignace, Ont. P0T 1T0
Phone (807) 934-2233

T. E. Dodds.....	District Manager
W. A. Brunton.....	Administration
P. R. Croskery.....	Fish & Wildlife
R. D. Scott.....	Forests
J. D. Bond.....	Field Services
P. J. Pincombe.....	Land Management

NORTH CENTRAL REGION

Box 5000, Ontario Government Building
 435 James St. South, Thunder Bay 'F' Ont. P7C 5G6
 Phone (807) 475-1261

G. P. Elliott.....	Regional Director	
L. M. Affleck.....	Deputy Reg. Director	
W. Hendry.....	Deputy Reg. Director	
J. D. Chadwick.....	Admin. Co-ordinator.....	1221
R. T. Thomson.....	Biologist.....	1231
A. B. Johnson.....	Fire Mgt. Program Manager.....	1265
R. B. Adamson.....	Engineer.....	1301
J. T. Rudolph.....	Forester.....	1251
D. J. Murray.....	Lands Co-ordinator.....	1321
A. W. Currie.....	Parks/Rec. Co-ordinator.....	1281
K. G. Fenwick.....	Geologist.....	1331
M. N. Kantymir.....	Personnel.....	1201
J. E. Jackson.....	Senior Planner.....	1495
F. Barbetti.....	Information Officer.....	1695

Dorion Trout Rearing Station, F. S. Watson..... Phone (807) 857-2322
 Regional Fire Centre
 L. R. Hutchinson - Fire services..... Phone (807) 475-1664
 R. Doyon - Fire Operation..... Phone (807) 475-1405
 Thunder Bay Forest Nursery, R. A. Klapprat..... Phone (807) 939-2558

THUNDER BAY DISTRICT

Box 5000, Thunder Bay 'F', Ont. P7C 5G6
 Phone (807) 475-1511

D. E. McHale.....	District Manager
B. G. Griffin.....	Administration
H. D. Howell.....	Fish & Wildlife
R. G. Klein.....	Forests
T. J. Leveque.....	Parks & Rec.
J. W. Suttie.....	Lands & Eng. Serv.

GERALDTON DISTRICT

Box 640, Geraldton, Ont. POT 1M0
 Phone (807) 854-1030

E. H. Stone.....	District Manager
L. S. Morrow.....	Administration
W. J. Cook.....	Fish & Wildlife
D. Jovic.....	Forests
A. Hoshino.....	Lands, Parks & Eng. Services

ATIKOKAN DISTRICT

108 Saturn Avenue, Atikokan, Ont. POT 1C0
Phone (807) 597-6971

A. M. Harjula.....	District Manager
B. A. Prince.....	Administration
R. N. Boyle.....	Field Services
B. H. Gibson.....	Fish & Wildlife
R. J. White.....	Forests
D. H. Elder.....	Lands & Parks

NIPIGON DISTRICT

Box 970, Nipigon, Ont. POT 2J0
Phone (807) 887-2120

J. E. Christian.....	District Manager
M. Wilson.....	Administration
L. Townes.....	Fish & Wildlife
S. Tenaglia.....	Forests
D. Bean.....	Lands & Parks & Eng. Serv.

TERRACE BAY

Box 280, Terrace Bay, Ont. POT 2W0
Phone (807) 825-3205

P.A. Strassburger.....	District Manager
.....	Field Services & Administration
J. A. Chappel.....	Fish & Wildlife
J. Nickleson.....	Lands & Parks

Manitouwadge Work Centre
Box 309, Manitouwadge, Ontario
POT 2C0 Phone (807) 826-3225
R. Waito..... Forests

NORTHERN REGION

Box 3000, 140 Fourth Ave., Cochrane, Ont. P0L 1C0
Phone (705) 272-4287

R. Riley.....	Regional Director
M. P. Barker.....	Deputy Reg. Director
R. I. Thompson.....	Admin. Co-ordinator
L. Lambert.....	Deputy Reg. Director
60 Wilson Avenue, Timmins, Ont. P4N 2S7	
Phone (705) 267-1401	
J. Young.....	Biologist
H. I. Mattson.....	Parks & Rec. Co-ordinator
J. S. Dougan.....	Personnel Co-ordinator
W. E. Belisle.....	Fire Management
C. Roswalka.....	Safety Officer
4 Government Rd E., Kirkland Lake, Ont. P2N 1A1	
Phone (705) 567-5421	
W. O. Mackasey.....	Mineral Res. Co-ordinator
M. S. Paradis.....	Eng./Lands Co-ordinator
T. Isherwood.....	Forester
R. J. Landry.....	Operations Manager

Swastika Forest Station, L. J. Forcier..... Phone (705) 642-3255
Hill's Lake Trout Rearing Station, P. Graf..... Phone (705) 544-2834

COCHRANE DISTRICT

Box 730, 2 Third Ave, Cochrane, Ont.
P0L 1C0 Phone (705) 272-4365

J. F. Gosnell.....	District Manager
G. Nantel.....	Administration
A. C. Hutchinson.....	Field Services
J. Starr.....	Forests
R. J. Jackson.....	Fish & Wildlife/Lands

KAPUSKASING DISTRICT

6 Government Road, Kapuskasing, Ont P5N 2W4
Phone (705) 335-6191

R. G. Lightheart.....	District Manager
L. Keller.....	Administration
C. Jessop.....	Fish & Wildlife
K. Buck.....	Forests
D. Miller.....	Lands & Parks

CHAPLEAU DISTRICT

190 Cherry Street, Chapleau, Ont. POM 1K0
Phone (705) 864-1710

F. J. Wilson.....	District Manager
J. R. Russell.....	Operations Manager
P. W. Varrin.....	Fish & Wildlife
P. K. Bidwell.....	Forests
J. P. Dick.....	Lands & Waters
G. W. Dingee.....	Parks & Rec.

KIRKLAND LAKE DISTRICT

Box 129, Swastika, Ont. POK 1T0
Phone (705) 642-3222

C. E. Emblin.....	District Manager
G. E. Allick.....	Operations Manager
L. Chamberlin.....	Fish & Wildlife
B. I. Thompson.....	Forests
J. A. Colquhoun.....	Lands
W. B. Hill.....	Parks

GOGAMA DISTRICT

896 Riverside Drive, Timmins, Ont. P4N 3W2
Phone (705) 267-7951

A. F. Papineau.....	District Manager
C. Mason.....	Officer-in-Charge
R. Fink.....	Administration
J. Cavanagh.....	Fish & Wildlife
C. Mason.....	Forests
L. LaCarte.....	Lands & Parks

TIMMINS DISTRICT

896 Riverside Drive, Timmins, Ont. P4N 3W2
 Phone (705) 267-7951

A. F. Papineau.....	District Manager
V. A. Mathieu.....	Operations Manager
T. Corbett.....	Fish & Wildlife
D. F. Jefferson.....	Forests
C. R. Biggar.....	Lands & Parks

HEARST DISTRICT

631 Front St., Hearst, Ont. POL 1N0
 Phone (705) 362-4346

W. H. Therriault.....	District Manager
W. C. Trowse.....	Administration
L. G. Woods.....	Field Services
S. St. Jules.....	Fish & Wildlife
D. Stillar.....	Forests (362-4264)
M. J. Girouard.....	Lands & Parks

MOOSONEE DISTRICT

Box 190, Moosonee, Ont.
 POL 1Y0 Phone (705) 336-2987

S. Toole.....	District Manager
L. Bent.....	Administration
G. F. McAuley.....	Field Services
K. G. Abrahams.....	Biologist
W. R. Lannin.....	Outdoor Rec.
W. A. Hutchison.....	Lands

NORTHEASTERN REGION

199 Larch Street, 9th Floor, Sudbury, Ont. P3E 5P9
 Phone (705) 675-4120

M. A. Klugman.....	Regional Director
J. E. Hamilton.....	Deputy Regional Director
S. Gourlay.....	Admin. Co-ordinator
P. E. Giblin.....	Lands & Waters Co-ordinator
M. Chambers.....	Personnel (acting)
R. G. Running.....	Information Officer
A. W. McClellan.....	Cons. Auth. Program Supervisor
J. L. Canfield.....	Fire Program Manager
W. C. Stevens.....	Forester
J. T. Linklater.....	Parks/Rec. Co-ordinator (acting)
E. A. Wright.....	Lands Co-ordinator
J. R. Chevalier.....	Regional Biologist
H. Walsh.....	Regional Engineer

Sault Ste. Marie, Mining Recorder

M. V. St. Jules..... Phone (705) 949-1231

Sudbury, Mining Recorder

V. Miller..... Phone (705) 675-4125

Tarentorus Trout Rearing Station

.....(S.S. Marie)..... Phone (705) 949-1231

North Bay Trout Rearing Station

M. Bohm (North Bay)..... Phone (705) 663-2311

Sandfield Fish Hatchery

G. Clark (Espanola)..... Phone (705) 859-3370

SAULT STE. MARIE DISTRICT

Box 130, 857 Queen St., Sault Ste. Marie, Ont. P6A 5L5

Phone (705) 949-1231

J. H. Sellers.....	District Manager
H. J. Smith.....	Administration
E. R. Thomas.....	Fish & Wildlife
B. Smith.....	Forests
I. J. Valentine.....	Lands
E. Vaughan.....	Engineering Services

SUDBURY DISTRICT

Box 3500, Stn. A, Sudbury, Ont. P3A 4S2
Phone (705) 522-7823

J. A. Simpson.....	District Manager
M. H. Jackson.....	Administration
F. C. Shaver.....	Field Services
G. J. Haarmeyer.....	Fish & Wildlife
D. R. Potvin.....	Forests
M. K. Smith.....	Lands
D. H. Brunette.....	Parks

NORTH BAY DISTRICT

Box 3070, 222 McIntyre St. W., The Trust Building
North Bay, Ont. P1B 8K7
Phone (705) 474-5550

J. R. Morin.....	District Manager
G. E. Lacelle.....	Administration
M. R. Wolfe.....	Fish & Wildlife
D. E. Honeyborne.....	Forests
R. V. Coulombe.....	Lands & Waters
H. J. Edmundson.....	Parks

BLIND RIVER DISTRICT

Box 190, 62 Queen St., Blind River, Ont. POR 1B0
Phone (705) 356-2234

R. Lessard.....	District Manager
F. McWhinnie.....	Administration
S. B. Woodside.....	Outdoor Recreation
C. F. Husk.....	Forests
R. H. Wood.....	Lands

WAWA DISTRICT

Box 1160, 22 Mission Road, Wawa, Ont. POS 1K0
Phone (705) 856-2396

C. D. Clark.....	District Manager
Mrs. J. M. Kern.....	Finance & Administration
A. J. Bull.....	Field Services
E. Armstrong.....	Fish & Wildlife
C. K. Sumi.....	Forest Management
E. V. Uhler.....	Lands
J. T. Stott.....	Parks

ESPANOLA DISTRICT

Box 1340, 148 Fleming St., Espanola, Ont. P0P 1C0
 Phone (705) 869-1330

E. N. Arbuckle.....	District Manager
Mrs S. Catling.....	Administration
D. R. Hughson.....	Outdoor Recreation
H. A. Liljalehto.....	Forests
D. C. Carnochan.....	Lands

TEMAGAMI DISTRICT

Box 38, Lakeshore Dr., Temagami, Ont. P0H 2H0
 Phone (705) 569-3622

R. B. McGee.....	District Manager
C. M. Hamilton.....	Administration
B. A. Hillier.....	Forests
R. B. Sinclair.....	Lands
S. T. Flemming.....	Outdoor Recreation
D. L. Larabie.....	Temiskaming Testing Lab.

ALGONQUIN REGION

Box 9000, Brendale Square, Huntsville, Ont. POA 1K0
Phone (705) 789-9611

R. M. Christie.....	Regional Director
J. H. Lever.....	Deputy Reg. Director
J. Carswell.....	Admin. Co-ordinator
T. E. Dodds.....	Forester
P. A. Smith.....	Biologist
A. P. Stephen.....	Engineer
B. Petman.....	Program Manager - Fire Management
J. A. van der Meer.....	Mines & Lands Co-ordinator
G. M. Moroz.....	Parks & Recreation Co-ordinator

Pembroke Trout Rearing Station (Privatized - Envirocon Ltd.)
Phone (613) 687-5935

Skeleton Lake Fish Hatchery
C. Core..... Phone (705) 769-3731

Haliburton-Hastings Fisheries
Assessment Unit..... Phone (613) 332-3940

Algonquin Park Fisheries
Assessment Unit..... Phone (613) 637-2780

Fire Management - Inside Fire Region

J. McCabe.....	Parry Sound.....	(705) 746-4201
T. Russell.....	Minden.....	(705) 475-2107
B. Gagnon.....	Pembroke.....	(613) 732-3661
P. Gallagher..	Tweed.....	(613) 478-2330

PARRY SOUND DISTRICT

4 Miller St, Parry Sound, Ont. P2A 1S8
Phone (705) 746-4201

W. J. Lovering.....	District Manager
G. F. Walter.....	Administration
J. F. Gardner.....	Fish & Wildlife
G. C. Felton.....	Forests
J. A. Shalla.....	Parks
L. A. Connelly.....	Lands & Engineering Services

BANCROFT DISTRICT

Box 500, Bancroft, Ont. K0L 1C0
Phone (613) 332-3940

D. J. Vance.....	District Manager
F. A. Buchan.....	Administration
M. F. Rush.....	Parks & Operations
V. B. Collins.....	Fish & Wildlife
F. J. Walker.....	Forests
D. W. McLennan.....	Project Manager
O. J. Fleming.....	Lands
H. D. Meyn.....	Geologist

ALGONQUIN PARK DISTRICT

Box 219, Whitney, Ont. K0J 2M0
Phone(705) 637-2780

G. R. Whitney.....	Park Supt./District Manager
E. A. Dayment.....	Administration
D. F. George.....	Forest Management
J. E. Elliott.....	Lands
L. L. Powell.....	Outdoor Recreation/Asst. Supt.
B. A. Norris.....	Field Services
J. R. Mihill.....	Management Forester

PEMBROKE DISTRICT

Box 220, Riverside Drive, Pembroke, Ont. K8A 6X4
Phone (613) 732-3661

L. J. Haas.....	District Manager
A. H. Plummer.....	Administration
A. E. Armstrong.....	Fish & Wildlife
R. C. A. Gilbert.....	Forests
G. D. Yarranton.....	Lands & Mines
E. N. McKenzie.....	Parks & Services
C. R. Buske.....	Eng. Services

BRACEBRIDGE DISTRICT

Box 1138, Bracebridge, Ont. POB 1C0
Phone (705) 645-8747

H. P. Endress.....	District Manager
R. E. Bloskie.....	Administration
J. T. Matthews.....	Services
D. M. Brooks.....	Fish & Wildlife
G. K. Schultz.....	Forests
J. A. Bryant.....	Lands
R. G. Ellis.....	Parks

MINDEN DISTRICT

Minden, Ont. KOM 2K0
Phone (705) 286-1521

D. D. White.....	District Manager
R. E. Raby.....	Administration
D. G. Atkinson.....	Fish & Wildlife
B. G. Cross.....	Forest Management
J. E. Dewey.....	Lands, Parks & Services

THE LESLIE M. FROST NATURAL RESOURCES CENTRE

Dorset, Ont. POA 1E0
Phone (705) 766-2451

G. A. Hamilton.....	Director
R. A. Stewart.....	Plan & Management Supt.
W. A. Chambers.....	Operations Supt.
D. R. Elliot.....	Field Services
T. G. Wright.....	Food Services
H. J. Barnhart.....	Maintenance Foreman

Specialists:

A. S. Corlett.....	Forestry
M. E. Buss.....	Fish & Wildlife
C. K. Macdonald.....	Recreation
J. A. Stocking.....	Lands
S. A. Williams.....	Visitor Services

EASTERN REGION

Provincial Government Building,
Concession Road, Kemptville, Ont. K0G 1J0
Phone (613) 258-3413

J. R. Oatway.....	Regional Director
D. E. Gage.....	Deputy Reg. Director, Resources
J. S. Anderson.....	Deputy Reg. Director, Services
W. B. Bowles.....	Admin. Co-ordinator
D. G. Watton.....	Biologist
W. G. Maslen.....	Lands Co-ordinator
J. D. Murray.....	Cons. Auth. Prg. Supervisor
W. P. Barber.....	Parks & Rec. Co-ordinator
J. R. Stork.....	Engineer
T. W. Fletcher.....	Mines Co-ordinator
P. E. Anslow.....	Forester
D. G. Kennedy.....	Field Services Co-ordinator

Codrington Fish Hatchery

A. H. Draves..... Phone (613) 475-2512

White Lake Fish Hatchery

K. Steele..... Phone (613) 335-2115

Westport Fish Hatchery

G. E. Raine..... Phone (613) 273-2106

G. Howard Ferguson Forest Station

A. J. Campbell..... Phone (613) 258-3413

TWEED DISTRICT

P.O. Box 70, Metcalfe Street, Tweed, Ont. K0K 3J0
Phone (613) 478-2330

R. N. Kervin.....	District Manager
G. J. O'Hearn.....	Administration
M. J. Williams.....	Lands & Field Services
J. C. Williamson.....	Outdoor Rec.
Dr. P. W. Kingston.....	Geologist
A. J. Denys.....	Forests

NAPANEE DISTRICT

1 Richmond Blvd., Napanee, Ont. K7R 3S3
Phone (613) 354-2173

R. W. Beecher.....	District Manager
R. A. Armstrong.....	Finance, Administration Services & Fire
R. W. Baldwin.....	Fish & Wildlife
R. Griffiths.....	Lands Supervisor
J. C. Matheson.....	Parks Supervisor
S. Thatcher.....	Mineral Resources

BROCKVILLE DISTRICT

Box 605, Oxford Ave., Brockville, Ont. K6V 5Y8
Phone (613) 342-8524

W. V. Hardy.....	District Manager
D. G. Gilmer.....	Administration
G. L. Penney.....	Fish & Wildlife
W. M. Fasken.....	Forests
G. Tabobondune.....	Lands & Field Services
B. A. Barkley.....	Fast Growing Hardwoods Group
S. Thatcher (at Napanee).....	Mineral Resources

CARLETON PLACE DISTRICT

10 Findlay Ave., Carleton Place, Ont. K7C 3Z6
Phone (613) 257-5735

M. S. Millar.....	District Manager
G. N. Sanderson.....	Administration & Field Services
J. D. McCready.....	Forests
R. N. Jones.....	Fish, Wildlife & Lands
R. M. Rogers.....	Lands
M. A. MacDonald.....	Mineral Resources
K. J. Schonauer.....	Parks

CORNWALL DISTRICT

Box 1749, 113 Amelia St. Cornwall, Ont. K6H 5V7
Phone (613) 933-1774

R. J. Cleroux.....	District Manager
W. J. Humphrys.....	Administration
P. A. McDonald.....	Fish, Wildlife, Fire & Engineering
B. W. Warwick.....	Forest Management
K. E. Green.....	Parks & Recreation
B. W. McCue.....	Lands Co-ordinator

CENTRAL REGION

10670 Yonge St., Richmond Hill, Ont. L4C 3C9
 Phone (416) 884-9203

M. B. Fordyce.....	Regional Director.....	295
A. D. Latornell.....	Deputy Reg. Director.....	297
H. Tjoelker.....	A/Deputy Reg. Director.....	290
R. M. Clouthier.....	A/Administrative Co-ordinator.....	208
J. B. Dawson.....	Biologist.....	247
J. J. McFadden.....	Cons. Auth. Co-ordinator.....	232
E. L. Borczon.....	Forester.....	289
M. Narain.....	Geologist.....	205
T. M. Kurtz.....	Service Engineer.....	234
J. T. Griffin.....	Parks Rec. Co-ordinator.....	299
M. A. Groneng.....	Lands & Mines Co-ordinator.....	216

Midhurst Forest Station, Midhurst

K. H. Reese..... Phone (705) 728-2900

Orono Forest Station, Orono

G. R. McLeod..... Phone (416) 983-9147

Ontario Tree Seed Plant, Angus

B. D. Swaile..... Phone (705) 424-5311

Deer Lake Fish Hatchery, R.R.#1, Havelock

G. T. Cation..... Phone (705) 778-3391

Ringwood Fish Hatchery

B. Marchant..... Phone (416) 640-6204

MAPLE DISTRICT

Maple, Ont. L0J 1E0

Phone (416) 832-2761

I. B. Earl.....	District Manager.....	203
W. B. Pottelberg.....	Administration.....	300
D. M. Hogg.....	Outdoor Recreation.....	211
Si Dae Kim.....	Forests, Field Services.....	224
B. Anderson.....	Lands & Mineral Resources.....	208

LINDSAY DISTRICT

322 Kent St. West, Lindsay, Ont. K9V 4T7
 Phone (705) 324-6121

W. H. Forman.....	District Manager
A. V. Kaufman.....	Administration
P. Smith.....	Fish & Wildlife
G. Higham.....	Forests, Field Services
L. C. Selby.....	Lands & Minerals
G. Scott.....	Parks

HURONIA DISTRICT

Midhurst, Ont. L0L 1X0
 Phone (705) 728-2900

W. D. Mansell.....	District Manager
D. H. Poff.....	Administration
A. W. Smith.....	Fish & Wildlife
R. O. Brandes.....	Forests
D. R. MacArthur.....	Services
J. R. Winters.....	Parks

CAMBRIDGE DISTRICT

Box 2186, Cambridge, Ont. N3C 2W1
 Phone (519) 658-9355

W. R. Catton.....	District Manager
B. J. DeGunst.....	Administration
T. Taylor.....	Fish & Wildlife
S. Yorgan.....	Forest Management
R. L. Houck.....	Parks
D. A. Routly.....	Lands & Minerals

NIAGARA DISTRICT

Box 1070, Hwy. 20, Fonthill, Ont. L0S 1E0
 Phone (416) 892-2656

J. E. Dickenson.....	District Manager
A. J. Vos.....	Administration
E. A. Kraker.....	Forests, Field Services
P. J. Drysdale.....	Outdoor Rec.
J. Z. Fraser.....	Lands & Minerals

SOUTHWESTERN REGION

659 Exeter Rd., Box 5463, London, Ont. N6A 4L6
 Phone (519) 681-5350

D. W. Schafer..... Regional Director
 J. D. Parker..... Deputy Reg. Director

Co-ordinators

D. W. Munch..... Finance & Administration
 H. A. Orr..... Fisheries
 R. J. McClure..... Conservation Authorities
 P. H. Crook..... Planning & Design
 J. A. Fingland..... Forests and Wildlife
 P. A. Palonen..... Mineral Resources
 G. E. Martelle..... Parks & Recreation
 D. C. Watt..... Personnel
 R. P. Wells..... Enforcement

Chatsworth Fish Hatchery
 G. M. Durant..... Phone (519) 794-2340

Normandale Fish Hatchery
 W. A. Hooper..... Phone (519) 426-3142

St. Williams Forest Station
 A. A. Wymia..... Phone (519) 586-3576

Petroleum Resources Lab/London
 (Vacant)..... Phone (519) 433-8431

CHATHAM DISTRICT

Box 1168, 435 Grand Avenue, Chatham, Ont. N7M 5L8
 Phone (519) 354-7340

W. L. McNab..... District Manager
 B. Hall..... Support Services
 H. Manson..... Fish & Wildlife
 K. Yaraskavitch..... Forests, Mineral Resources
 A. D. Carr..... Parks
 H. W. Rowe..... Extension Services

SIMCOE DISTRICT

645 Norfolk St. North, Simcoe, Ont. N3Y 3R2
Phone (519) 426-7650

M. F. McKenzie.....	District Manager
A. McGarrity.....	Support Services
J. M. Collins.....	Resource Planning
R. Manley.....	Operations
W. L. Edwards.....	Extension Services

OWEN SOUND DISTRICT

611 Ninth Avenue East, Owen Sound, Ont. N4K 3E4
Phone (519) 376-3860

R. W. Tippet.....	District Manager
M. Gobeil.....	Support Services
S. A. Monroe.....	Lake Huron Fishery Operation Co-ordinator
W. J. Lambie.....	Forest Resources
P. H. Baxter.....	Parks, Fish & Wildlife
K. Hawthorne.....	Extension Services
E. G. Walker.....	Reg. Fire Co-ordinator

WINGHAM DISTRICT

R.R. #5, Wingham, Ont. N0G 2W0
Phone (519) 357-3131

J. L. Hamill.....	District Manager
O. E. Crawford.....	Support Services
W. A. Creighton.....	Resource Planning
H. R. Lancaster.....	Operations
T. R. Carter.....	Mineral Resources
R. H. Spurr.....	Extension Services

AYLMER DISTRICT

353 Talbot St. W., Aylmer, Ont. N5H 2S8
Phone (519) 773-9241

M. G. Lewis.....	District Manager
D. L. Clarke.....	Support Services
G. R. Austin.....	Operations
W. C. Gilmore.....	Resource Planning
D. G. Ward.....	Extension Services
J. W. E. Lau.....	Mineral Resources

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And:

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Mail orders: MGS Publications Services Section, 5th Floor, 880 Bay Street, Toronto, Ontario, M7A 1N8.

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Statistics 1985



Ministry of
Natural
Resources

Hon. Vincent G. Kerrio
Minister

Mary Mogford
Deputy Minister

Statistics 1985

A statistical supplement to the Annual
Report of the Minister of Natural
Resources for the year ending
March 31, 1985.

\$2.00



Ontario

Ministry of
Natural
Resources

Hon. Vincent G. Kerrio
Minister

Mary Mogford
Deputy Minister

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MINISTRY OF NATURAL RESOURCES

Main Office in Whitney Block, Parliament Buildings, Toronto, Ontario M7A 1W3

Hon. Vincent Kerrio.....	Minister of Natural Resources and Energy
Mary Mogford.....	Deputy Minister
R. M. Monzon.....	Assistant Deputy Minister, Administration
G. A. McCormack.....	Assistant Deputy Minister, Northern Ontario, Box 5000, 435 James St. South, Thunder Bay 'F', Ontario P7C 5G6 Northwestern Region North Central Region Northern Region Northeastern Region Aviation and Fire Management Centre
R. J. Burgar.....	Assistant Deputy Minister, Southern Ontario. Maple, Ontario L0J 1E0 Algonquin region Eastern Region Central Region Southwestern Region

MINISTERIAL AGENCIES

G. H. Ferguson, Q. C.....	Mining and Lands Commissioner
I. D. Bird.....	General Manager, Algonquin Forest Authority

OFFICE OF DEPUTY MINISTER

Room W-6320, Main Office, Telephone (416) 965-2704

Deputy Minister.....	Mary Mogford.....	W-6320.....2704
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Ontario Renewable Resource Research Grant Program.....	G. A. Ross.....	W-6304....3-3049
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Forest Resources Group.....	K. A. Armson.....	W-3624.....4319
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Outdoor Recreation Group.....	T. J. Millard.....	W-2341.....5661
Lands and Waters Group.....	H. A. Clarke.....	W-6626.....6046
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Secretary.....	Mrs. M. Forbes.....	W-6450.....8422
Policy Officer.....	E. E. Multamaki.....	W-6445.....6712
Mineral Resources Policy Officer...	Ms. R. E. Booth-Horst	W-6453.....6712
Policy Officer - Northern Ontario..	G. G. Pyzer.....	(807)...475-1271
Strategic Planning and Support.....	J. D. Ross.....	W-6446.....6371
Special Projects Officer.....	J. M. Kearns.....	W-6454.....6371
Land Use Planning Spvr. (acting)...	G. K. Rodgers.....	W-6452.....2899
Plan Input and Review Specialist...	J. C. Slot.....	W-6448.....2899
Environmental Assessment Co-ord....	R. D. La Prairie.....	W-6449.....5344
Integrated Resource Management Planning Specialist.....	G. D. Rodgers.....	W-6451.....2899

RENEWABLE RESOURCES RESEARCH GRANT PROGRAM

Summary of projects and allocations for the first year of the program, 1984

<u>University</u>	<u>Projects</u>
Guelph	5
Lakehead	2
Ottawa	1
R.O.M.	1
Toronto	4
Trent	1
Waterloo	3
York	1
	<hr/>
TOTAL PROJECTS	18
TOTAL COST	\$251,278.00

MINISTRY REGIONS AND DISTRICTS

Areas in Square Kilometres *

NORTHWESTERN REGION

Dryden	11,961	
Fort Frances	10,847	
Ignace	11,463	
Kenora	14,188	
Red Lake	64,105	
Sioux Lookout	<u>112,097</u>	<u>224,661</u>

Pt. Rainy Lake	1,222	
Pt. Lake of the Woods	<u>2,427</u>	<u>3,649</u>

Total, Region		<u>228,310</u>
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NORTHERN REGION

Chapleau	23,602	
Cochrane	30,715	
Gogama	7,752	
Hearst	25,245	
Kapuskasing	21,225	
Kirkland Lake	13,312	
Moosonee	215,741	
Timmins	<u>7,899</u>	<u>345,491</u>

Pt. Lake Abitibi	<u>790</u>	<u>790</u>
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Total, Region		<u>346,281</u>
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ALGONQUIN REGION

Algonquin Park	9,376	
Bancroft	4,239	
Bracebridge	6,454	
Minden	4,745	
Parry Sound	7,187	
Pembroke	<u>7,306</u>	<u>39,307</u>

Pt. Georgian Bay	<u>3,875</u>	<u>3,875</u>
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Total, Region		<u>43,182</u>
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SOUTHWESTERN REGION

Aylmer	6,731	
Chatham	7,389	
Owen Sound	7,817	
Simcoe	2,818	
Wingham	<u>6,889</u>	31,644

Pt. Lake Huron and Lake Erie	30,950	
Pt. Lake St. Clair	<u>673</u>	<u>31,624</u>

Total, Region		<u>62,268</u>
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NORTH CENTRAL REGION

Atikokan	11,321	
Geraldton	112,784	
Nipigon	25,574	
Terrace Bay	12,673	
Thunder Bay	<u>28,451</u>	<u>190,803</u>

Lake Nipigon	5,006	
Pt. Lake Superior	16,017	<u>21,023</u>

Total, Region		<u>211,826</u>
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NORTHEASTERN REGION

Blind River	9,516	
Espanola	9,523	
North Bay	10,668	
Sault Ste. Marie	7,912	
Sudbury	12,725	
Temagami	6,856	
Wawa	<u>22,535</u>	79,735

Pt. Lake Huron and Lake Superior	25,298	
Lake Nipissing	816	
Lake Wahnapiatae	<u>145</u>	<u>26,259</u>

Total, Region		<u>105,994</u>
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EASTERN REGION

Brockville	3,496	
Carleton Place	6,277	
Cornwall	5,594	
Napanee	6,537	
Tweed	<u>6,605</u>	<u>28,509</u>

Pt. Lake Ontario	4,333	<u>4,333</u>
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Total, Region		<u>32,842</u>
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CENTRAL REGION

Cambridge	7,141	
Huron	6,550	
Lindsay	6,856	
Maple	4,812	
Niagara	<u>2,670</u>	<u>28,029</u>

Pt. Lake Ontario and Lake Erie	8,109	
Lake Simcoe	<u>741</u>	<u>8,850</u>

Total, Region		<u>36,879</u>
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TOTALS

47 Districts		968,179
12 Lakes		<u>100,403</u>

Area of Ontario		1,068,582
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* August 19, 1980
 Surveys and Mapping Branch

FOREST RESOURCES GROUP

Room W-3623, Main Office

Telephone (416) 965-2785

Executive Co-ordinator.....	K. A. Armson.....	W-3624...5-4319
Secretary.....	Miss O. Andrews...	W-3624...5-8538
Co-ordinator, Private land Forestry...	W. K. Fullerton...	W-3621...5-3040
Chief Forest Economist.....	Dr. F. Miller.....	W-3627...5-2785

FOREST RESOURCES BRANCH

Room W-3640, Main Office

Telephone (416) 965-2575

Director.....	L. Lambert.....	W-3646...5-2787
Secretary.....	Mrs. J. Whorms....	W-3646...5-2577

FOREST PRODUCTION & CONTROL DIVISION

Supervisor.....	C. J. Heeney.....	W-3649...5-2575
Tree Seed & Forest Genetics Supvr...	Ms. R. M. Rauter..	W-3634...3-1334
Forest Genetics Co-ordinator.....	J. V. Hood.....	W-3632...3-1334

Stock Production Section Spvr.....	R. J. Reffle.....	W-3655...5-2575
Soil & Plant Analyst.....	V. Sadreika.....	W-3653...5-2575
Tree Distribution Co-ordinator....	H. T. Tiemann.....	W-3654...5-2575
Silvicultural Data Controller.....	R. K. Crawford....	W-3648...5-2575

Technical Development Section

Co-ordinator.....	Dr. D.C.F. Fayle..	W-3631...5-2785
Forest Practices Section Spvr.....	W. Vonk.....	W-3621...5-2785

STRATEGIC TARGETS & PROGRAM CONTROL DIVISION

Section Spvr.....	J. R. Cary.....	W-3643...5-0378
Forest Production Analyst.....	J. A. Cooper.....	W-3650...5-2575

PRIVATE LAND FORESTRY DIVISION

Section Spvr.....	R. N. Staley.....	W-3630...5-2785
Agreement Administrator.....	J. Brown.....	W-3629...5-2785

PEST CONTROL DIVISION

Section Spvr.....	B. G. McGauley.....	Maple..832-2761
Forest Entomologist.....	J. J. Churcher.....	Maple..832-2761
Forest Pathologist.....	Dr. J. A. Juzwik...	Maple..832-2761
Herbicide Specialist.....	Dr. R. A. Campbell.	Maple..832-2761
Pesticide Applications Specialist...	S. A. Nicholson....	Maple..832-2761

CANADA-ONTARIO FOREST RESOURCE
DEVELOPMENT AGREEMENT

Administrator.....	K. G. Higgs.....	W-1545...3-1334
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ONTARIO TREE IMPROVEMENT AND FOREST
BIOMASS INSTITUTE (OTIFBI)

Maple, Ontario L0J 1E0 Telephone (416) 832-2761

General Manager.....	D. P. Drysdale.....	832-2761
Executive Officer.....	D. Morgan.....	832-2761
Technology Transfer Specialist.....	D. Bates.....	832-2761
Scientific Photographer.....	J. Robinson.....	832-2761
TREE IMPROVEMENT AND BIOMASS SECTION		
Principal Scientist	Dr. G. Buchert.....	832-2761
Research Scientist Tree Breeding		
Hard Pine.....	Dr. G. Buchert.....	832-2761
Research Scientist		
Genecology Spruce.....	Dr. A. G. Gordon... Sault Ste. Marie	(705) 949-9461
Forest Biomass Unit Leader.....	H. W. Anderson.....	832-2761
Research Scientist Upland		
Silviculture.....	P. Jaciw.....	832-2761
Research Scientist, Biotechnology.....	Dr. R. H. Ho.....	832-2761
Research Scientist, Tree Seed.....	D. A. Skeates.....	832-2761
Research Scientist, Aspen		
Silviculture.....	D. Weingartner.....	Thunder Bay (807) 767-1607
Nursery/Greenhouse Arboreta		
Unit Leader.....	K. Bennett.....	832-2761
FOREST ECOLOGY AND SILVICULTURE SECTION		
Principal Scientist.....	Dr. D. Burger.....	832-2761
Scientist, Tree Physiology.....	Y. T. Kim.....	832-2761
Research Scientist, Boreal		
Mixed Woods.....	G. B. MacDonald.....	Thunder Bay (807) 767-1607
Biomath/Program Analyst.....	R. Forslund.....	Thunder Bay (807) 767-1607
Silviculture and Tree Biology		
Unit Leader.....	Dr. C. Glerum.....	832-2761
Research Scientist, Plant Stock.....	S. Colombo.....	832-2761
Research Scientist, Tolerant		
Hardwoods Silviculture.....	M. McLean.....	Dorset (705) 766-2671
Research Scientist, Artificial		
Regeneration - Boreal.....	K. M. McClain.....	Thunder Bay (807) 767-1607
Silviculture Specialist.....	G. Stroempl.....	832-2761
Supervisor, Research Nursery.....	R. Hutchison.....	Midhurst (705) 737-5510

USE OF NURSERY STOCK IN YEAR ENDING MARCH 31, 1985

Use	Bare Root Ministry	Container Ministry	Contract	Total
Crown Land and Agreement Forest	31,730,758	13,964,217	62,084,413	107,779,388
W.I.A.	7,535,950	-	-	7,535,950
Other Private Land	12,120,046	-	-	12,120,046
Education or Science	796,435	-	-	796,435
Miscellaneous	-	-	-	-
TOTAL	52,183,189	13,964,217	62,084,413	128,231,819

FOREST TREES PRODUCED AND PURCHASED BY THE MINISTRY

Year	Bare Root Ministry	Container Ministry	Contract	Total
1975	59,794,450	3,148,406	-	62,942,856
1976	50,944,733	5,346,866	-	56,291,599
1977	45,981,122	4,291,764	-	50,272,886
1978	48,291,842	5,461,375	-	53,753,217
1979	52,928,125	5,487,210	-	58,415,335
1980	61,453,461	7,944,817	-	69,398,278
1981	65,360,243	10,496,839	-	75,857,082
1982	69,448,150	13,950,538	-	83,398,688
1983	63,660,427	10,999,088	5,466,142	80,125,657
1984	67,472,981	14,743,138	25,256,448	107,472,567
1985	52,183,189	13,964,217	62,084,413	128,231,819

PLANTING STOCK DISTRIBUTION

Bare Root Nursery Stock	
conifers	49,135,410
hardwoods	<u>3,047,779</u>
Total	52,183,189
Container Stock (conifers)	
ministry facilities	13,964,217
contract facilities	<u>62,084,413</u>
Total	<u>76,048,630</u>
GRAND TOTAL	<u>128,231,819</u>

TREE PRODUCTION BY SPECIES

Number of trees in years ending March 31

Species	1981	1982	1983	1984	1985
White Spruce	14,384,928	16,394,578	16,396,972	15,037,822	11,302,704
Black Spruce	17,365,106	17,155,688	18,847,802	35,772,366	48,298,559
Red Pine	8,534,677	7,493,071	6,707,858	7,125,973	4,771,746
Jack Pine	19,143,238	25,830,821	21,744,405	33,456,807	45,991,911
White Pine	6,431,427	6,451,959	7,595,781	7,575,437	9,809,085
White Cedar	2,381,005	2,806,775	2,984,424	2,355,744	1,788,336
Scotch Pine	1,500,375	1,545,425	906,075	1,874,825	2,346,725
Silver Maple	563,229	240,785	502,402	413,503	594,032
Norway Spruce	1,367,267	1,093,919	1,021,589	873,810	487,910
Carolina Poplar	583,863	532,351	404,549	404,128	302,230
Black Walnut	459,275	364,000	333,125	330,585	319,425
White Ash	256,239	283,281	57,218	100,099	71,706
European Larch	489,290	275,202	164,918	123,540	59,925
Yellow Birch	80,144	116,400	20,000	4,115	-
Red Oak	258,284	316,191	178,717	179,827	42,858
Black Locust	203,250	164,475	217,950	158,875	67,640
Tamarack	143,777	309,506	434,983	163,826	260,560
Hemlock	68,746	272	14,725	17,264	23,600
Cottonwood	53,725	-	-	-	-
Hybrid Poplar					
Rooted	112,422	108,484	53,042	52,504	26,730
Unrooted	818,530	1,061,811	1,079,038	954,520	935,081
Japanese Larch	156,965	293,631	129,350	162,350	102,350
Aspen, unrooted	-	-	7,880	-	-
Other Species	501,320	560,063	322,854	334,647	628,706
TOTALS	75,857,082	83,398,688	80,125,657	107,472,567	128,231,819

TREES SUPPLIED FOR PLANTING ON PRIVATE LANDS

in year ending March 31

County, District or Regional Municipality	1981	1982	1983	1984	1985
Algoma	305,955	190,825	251,205	373,630	255,078
Brant	222,850	129,055	122,125	169,600	144,345
Bruce	194,197	278,020	138,851	193,992	176,485
Cochrane	705,480	1,072,250	536,825	792,140	257,925
Dufferin	507,385	470,585	307,250	368,495	390,450
Dundas	125,453	68,475	73,972	121,360	75,901
Durham*	479,450	538,150	487,200	531,925	489,175
Elgin	208,435	209,899	189,162	197,437	216,217
Essex	208,541	188,513	199,307	225,781	138,837
Frontenac	136,700	193,486	112,800	115,110	152,325
Glengarry	190,742	166,500	136,350	74,800	129,550
Grey	524,400	503,740	487,980	568,150	529,653
Haldimand-Norfolk	525,407	485,492	520,725	468,362	488,959
Haliburton	48,100	33,800	26,800	23,700	36,850
Halton	274,165	137,575	105,385	182,883	126,515
Hastings	169,042	317,973	178,422	360,897	227,013
Huron	273,100	198,264	147,279	244,654	274,237
Kenora	273,900	189,175	519,125	529,050	264,375
Kent	303,225	233,185	320,655	270,300	157,050
Lambton	192,941	239,577	174,693	150,309	94,571
Lanark	260,175	203,900	155,000	158,850	143,700
Leeds & Grenville	297,361	333,375	249,795	328,626	266,150
Lennox & Addington	107,775	128,350	154,095	109,600	69,700
Manitoulin	27,400	15,100	16,350	20,125	10,600
Middlesex	616,575	433,402	440,800	480,350	329,960
Muskoka	73,250	68,150	57,845	56,459	154,650
Niagara	366,493	365,481	211,336	310,746	195,152
Nipissing	41,925	60,770	75,455	293,100	187,757
Northumberland*	326,280	530,657	423,148	387,473	266,280
Ontario*	-	2,610	1,700	-	570
Ottawa-Carleton	300,615	252,310	160,530	162,805	197,155
Oxford	275,075	197,278	175,996	150,975	136,680
Parry Sound	338,250	188,650	50,625	155,225	64,035
Peel	289,669	265,910	188,300	192,635	292,235

County, District or Regional Municipality	1981	1982	1983	1984	1985
Perth	177,450	135,535	169,190	114,115	93,650
Peterborough	202,400	133,920	148,111	217,215	174,562
Prescott	123,875	142,825	250,400	131,150	120,700
Prince Edward	86,825	71,650	72,100	166,150	173,700
Rainy River	97,325	101,750	13,650	67,940	382,900
Renfrew	420,025	229,550	282,925	595,720	207,750
Russell	207,150	174,655	128,150	133,855	144,732
Simcoe	1,268,225	1,143,650	1,006,995	1,096,576	1,061,074
Stormont	138,703	50,100	60,500	93,095	182,290
Sudbury	465,222	415,335	590,029	490,255	358,807
Thunder Bay	418,325	113,325	62,975	206,150	241,575
Timiskaming	40,300	12,250	23,400	154,950	43,850
Victoria	283,922	278,930	204,725	251,689	200,502
Waterloo	170,052	111,100	86,575	190,075	139,425
Wellington	759,815	709,700	798,607	675,938	938,051
Wentworth	365,135	324,423	299,198	350,579	244,825
York	568,025	410,582	438,280	478,705	471,518
Durham Regional Municipality	1,550	150	-	400	-

TOTALS

1981	14,984,610#
1982	13,449,912#
1983	12,032,896#
1984	14,184,101#
1985	12,120,046#

Excluding W.I.A.

* Totals do not reflect formation of the Regional Municipality of Durham

FOREST AREAS MANAGED BY THE MINISTER

in hectares at March 31, 1985

Agreement Holders	Term of Agreement	Released 1984-85	Added 1984-85	Total
GOVERNMENT OF CANADA				
National Capital Commission	Apr. 1961 - Mar. 2011	-	-	1,704.13
21 CONSERVATION AUTHORITIES				
Ausable Bayfield	Jan. 1983 - Mar. 2004		91.05	1,905.26
Cataraqui Region	Apr. 1971 - Mar. 1996			342.31
Catfish Creek	Apr. 1962 - Mar. 2002			254.55
Crowe Valley	Jan. 1963 - Dec. 2003			80.94
Ganaraska	Apr. 1977 - Mar. 2002			3,496.18
Grand River	Apr. 1961 - Mar. 2000			1,657.72
Lakehead Region	May 1958 - Apr. 2008			670.85
Long Point Regional	Apr. 1982 - Mar. 2000		1.01	2,592.33
Lower Thames Valley	Apr. 1964 - Mar. 1984			121.41
Maitland Valley	Apr. 1955 - Mar. 2005			343.58
Metropolitan Toronto & Region	Apr. 1975 - Mar. 2000	.52		785.38
Moir River	Apr. 1978 - Mar. 2000			6,807.13
Napanee Region	Oct. 1954 - Oct. 2004			2,732.44
Niagara Peninsula	June 1963 - Mar. 2003			75.27
*North Grey Region	June 1958 - June 2008		65.36	2,948.03
Otonabee Region	Apr. 1976 - Mar. 2002			1,465.04
Raison Region	Apr. 1971 - Mar. 2001			137.59
*Sauble Valley	Apr. 1960 - Mar. 2002			1,547.52
Saugeen Valley	Apr. 1960 - Mar. 2002			5,285.39
South Nation River	Apr. 1975 - Mar. 2000			3,072.83
St. Clair Region	May 1965 - Apr. 1985			60.70
Upper Thames River	Apr. 1961 - Mar. 2001			1,363.29
Sub-total		.52	157.42	37,745.74

* "Grey Sauble" Amalgamation - January 1, 1985

Agreement Holders	Term of Agreement	Released 1984-85	Added 1984-85	Total
8 TOWNSHIPS				
Charlottenburgh	Apr. 1975 - Mar. 1995			77.70
Cramahe	Apr. 1963 - Mar. 2003			65.56
Cumberland	July 1980 - June 2030			371.68
Darlington	Apr. 1971 - Mar. 1991			56.66
Machar	Sept 1963 - Aug. 1993			36.42
Mosa	Apr. 1963 - Mar. 2003			58.27
*West Carleton	Apr. 1983 - Mar. 2003			174.34
Williamsburg	Apr. 1962 - Mar. 2002			161.87
Sub-total				1,002.50

Agreement Holder	Term of Agreement	Released 1984-85	Added 1984-85	Total
19 COUNTIES				
Brant	Apr. 1960 - Mar. 2000			40.19
Bruce	Apr. 1962 - Mar. 2002			6,106.03
Dufferin	Apr. 1971 - Mar. 1991			1,019.21
Grey	Apr. 1960 - Mar. 2000			3,481.19
Huron	Apr. 1960 - Mar. 2000			662.30
Kent	Apr. 1960 - Mar. 2000			30.51
Lanark	Apr. 1980 - Mar. 2000	3.52	99.15	3,807.00
Leeds & Grenville	Apr. 1975 - Mar. 1995			5,802.18
Lennox & Addington	Apr. 1960 - Mar. 2000			473.04
Middlesex	Apr. 1960 - Mar. 2000			980.96
Northumberland	Apr. 1981 - Mar. 2001			2,603.98
Oxford	Apr. 1961 - Mar. 2000			342.06
Peterborough	Apr. 1981 - Mar. 2001			80.94
Prescott & Russell	Apr. 1983 - Mar. 2003			10,581.00
Renfrew	Apr. 1960 - Mar. 2000	.76		6,497.56
Simcoe	Apr. 1960 - Mar. 2000	12.55		10,587.59
Stormont, Dundas & Glengarry	Apr. 1975 - Mar. 2000		116.13	3,193.16
Victoria	Nov. 1976 - Mar. 2000			3,794.71
Wellington	Apr. 1963 - Mar. 2003			521.44
Sub-total		16.83	215.28	60,605.02

Agreement Holders	Term of Agreement	Released 1984-85	Added 1984-85	Total
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5 REGIONAL MUNICIPALITIES

Durham	May 1980 - Apr. 2000			591.05
Halton	Apr. 1976 - Mar. 2000			632.29
Hamilton-Wentworth	TERMINATED Nov. 1984	391.19		
Ottawa-Carleton	Apr. 1974 - Mar. 2004		20.23	5,504.34
Waterloo	Apr. 1976 - Mar. 2001			304.54
York	Apr. 1977 - Mar. 2007			2,030.48

Sub-Total

391.19 20.23 9,062.70

INDUSTRY

Domtar Inc	Apr. 1974 - Mar. 1999			900.02
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TOTAL 55 Managed Forest Areas

Added 1984-85	392.93
Released 1984-85	408.54
Total	111,020.14

SILVICULTURE OPERATIONS 1984-85
 Classification of Cutover Forest Land
 Area in hectares

	Crown Land	FMA's	Total Crown Lands	Agree- ment Forests	W.I.A.	Other Patent Lands	Total
Harvest Cut, evenaged management	116,300	60,689	176,989	573	949	8,808	187,319
Harvest Cut, unevenaged management	15,479	-	15,479	323	1,265	13,420	30,487
TOTAL	131,779	60,689	192,468	896	2,214	22,228	217,806

SUMMARY OF SILVICULTURAL OPERATIONS

Areas in Hectares in year ending March 31, 1985

	Crown Land	Forest Management Agreements	Total Crown Land
REGENERATION			
Planting Bare Root Stock	9,286	6,241	15,527
Planting Container Stock	17,479	19,484	36,963
Planting Hybrid Poplar Cuttings	70	30	100
Seeding	7,491	8,417	15,908
Scarification	585	294	879
Strip Cutting	600	545	1,145
Seed Tree Cutting	1,183	1,306	2,489
Shelterwood Cutting	9,232	-	9,232
Clear Cutting	5,829	3,131	8,960
Total	51,755	39,448	91,203
RE-TREATMENT			
Re-treatment area included in planting and total regeneration figures above	2,415	1,534	3,949
TENDING			
Hand Cleaning	7,470	226	7,696
Herbicide Spraying	17,283	24,740	42,023
Thinning Improvement Cuts	6,547	44	6,591
Pruning	595	1	596
Fertilization Drainage	58	-	58
Total	31,953	25,011	56,964
SITE PREPARATION	46,726	37,082	83,808
UNEVEN-AGED MANAGEMENT	11,769	-	11,769
TOTAL AREA TREATED	142,203	101,541	243,744

Agreement Forests	W.I.A.	Sub-total	Other Patent Lands	Total
181	4,891	20,599	5,143	25,742
79	167	37,209	33	37,242
111	42	253	117	370
-	67	15,975	254	16,229
-	-	879	-	879
2	10	1,157	11	1,168
-	-	2,489	-	2,489
121	112	9,465	428	9,893
22	36	9,018	457	9,475
516	5,325	97,044	6,443	103,487
93	1,481	5,523	17	5,540
310	740	8,746	42	8,788
467	2,300	44,790	2,284	47,074
1,767	1,717	10,075	2,028	12,103
940	357	1,893	7	1,900
63	8	129	-	129
3,547	5,122	65,633	4,361	69,994
281	1,434	85,523	530	86,053
90	663	12,522	6,641	19,163
4,434	12,544	260,722	17,975	278,697

CROWN LANDS TREATED

Areas in hectares in years ending March 31

Silvicultural Operations	1981	1982	1983	1984	1985
REGENERATION					
Planting Bare Root					
Stock.....	18,786	22,561	21,272	21,286	15,527
Planting Container					
Stock.....	4,829	6,357	7,305	17,889	36,963
Planting Hybrid Poplar					
Cuttings.....	24	31	19	286	100
Seeding.....	47,296	27,869	29,857	21,180	15,908
Scarification.....	3,241	1,653	817	1,110	879
Strip Cutting.....	1,562	2,879	1,445	718	1,145
Seed Tree Cutting.....	3,934	3,100	3,215	4,204	2,489
Shelterwood Cutting.....	9,794	7,738	9,431	10,308	9,232
Clear Cutting.....	6,202	4,909	7,552	14,121	8,960
Total.....	95,668	77,097	80,913	91,102	91,203
RE-TREATMENT.....					
	7,981	2,263	2,353	3,483	3,949
TENDING					
Hand Cleaning.....	4,481	3,686	5,844	6,282	7,696
Herbicide Spraying.....	25,404	19,668	26,165	21,125	42,023
Thinning Improvement Cuts....	8,209	6,679	6,698	6,908	6,591
Pruning.....	853	618	756	751	596
Fertilization Drainage.....	166	163	87	207	58
Total.....	39,113	30,814	39,550	35,273	56,964
SITE PREPARATION	51,057	53,289	67,583	74,064	83,808
MARKING	43,390	38,954	37,229	42,301	-
UNEVEN-AGED MANAGEMENT	-	-	-	-	11,769
TOTAL AREA TREATED	237,209	202,417	225,275	242,740	243,744

TREE SEED PROGRAM 1984-85

SEED COLLECTION

Seed Crop By Species	Volume Collected (hl)
Jack pine	8,527.34
Black spruce	2,021.85
White spruce	1,989.76
White pine	3,044.36
White cedar	127.39
Red pine	61.20
Black walnut	200.00
Other species	1,060.88
Total viable	17,032.78

1984 SEED DISTRIBUTION

Direct seeding	858,388,940
Nursery stock production	501,011,249
Container stock production	242,627,506
Research and miscellaneous	6,521,153
Total viable seed	1,608,548,848

SEED IN STORAGE AS OF MARCH 31, 1985

No. of viable seed (billion)	14.105
No. of different species	55
Total weight (kg)	48,375
Total value (million)	8.075

TREE SEED AREAS

Areas in hectares

Species	Seed Collection Areas	Seed Production Areas	Seed Orchards (areas planted to date)
Black Spruce	557.1	171.8	73.1
White Spruce	118.8	243.3	31.8
White Pine	239.0	594.3	31.2
Jack Pine	11,540.4	1,192.8	42.0
Others	472.3	570.6	20.3
Total	12,927.6	2,772.8	198.4

1984-85 FORESTRY EXTENSION ACTIVITIES

Inquiries serviced	119,614
Field inspections	10,044
Advisory service plans prepared	2,464
Volume of timber marked - sawlogs (cubic metres)	125,697
- pulpwood (cubic metres)	56,294
- fuelwood (cubic metres)	235,997
Public education activities	1,625
Forestry instruction - youth groups (no.)	241
Forestry instruction - education facilities (hrs.)	5,279

Total trees planted - private orders	12,120,046
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THE WOODLANDS IMPROVEMENT ACT 1984-85

	No. of Agreements	Area in Hectares
New W.I.A. Agreements Activated in 1983-84	427	3,989
Total W.I.A. Agreements in effect to March 31, 1984	9,776	144,570
New Advisory Service Agreements Activated in 1983-84	59	874
Advisory Service Agreements in effect to March 31, 1984	230	3,361
Total Trees Planted - W.I.A.:	7,535,956	

FOREST RESOURCES GROUP

TIMBER SALES BRANCH

Room W-3610, Main Office

Telephone (416) 965-2731 or 963-2396

Director.....	E. Markus.....	W-3612...965-3948
Special Projects Co-ordinator..	R. P. Alton.....	W-3610.....3-2396

TIMBER ALLOCATION SECTION

Supervisor.....	K. E. Cleary.....	W-3611...3-2396
Timber Licensing Spvr.....	R. Beny.....	W-3610...3-2396
Licensing Unit Spvr.....	F. C. Parris.....	W-3601...5-2731
Resource Economist.....	I. A. Nausedas.....	W-3601...5-2731
Industry Liaison Officer.....	W. D. Wardle.....	W-3625...5-2785
Statistician.....	O. J. Menezes.....	W-3601...5-2731

MANAGEMENT PLANS SECTION

Supervisor.....	A. M. van Fraassen.....	W-3522.....5-7631
Mensuration Unit		
Chief Mensurationist.....	J. A. Mervart.....	W-3526.....5-7631
Mensurationist.....	A. F. Beckwith.....	Rm 168.....5-9754 880 Bay St.
Forest Ecologist.....	G. Pierpoint.....	Rm 168.....5-9755 880 Bay St.
Biomathematician.....	F. L. Raymond.....	Rm 168.....5-9756 880 Bay St.
Methods and Procedures		
Analyst.....	D. C. MacIver.....	Rm 168.....5-9756 880 Bay St.
Planning Unit		
Planning Analyst.....	G. Protich.....	W-3525...5-7631
Planning Analyst.....	H. van Bers.....	W-3523...5-7631
FMA Co-ordinator.....	T. J. Tworzyanski.....	W-3524...5-7631

WOOD MEASUREMENT SECTION

Supervisor.....	J. H. Butts.....	W-3642...5-0378
Provincial Wood Measurement		
Training Officer.....	J. Bingley.....	W-3641...5-0378
Senior Data Processing Officer.	R. G. Johnson.....	W-3641...5-0378
Data Control Officer.....	N. Martel.....	W-3641...5-0378

FOREST MANAGEMENT INFORMATION SECTION

Supervisor.....	J. E. Osborn.....	W-3542...5-6914
Forest Resources Inventory Unit		
Supervisor.....	D. B. Cardwell.....	W-3544...5-6914
Darkroom Spvr.....	J. Howard.....	W-3520...5-6914
Operations Manager.....	D. Trafford.....	W-3543...5-6914
Photo Interpretation Spvr....	A. Manley.....	W-3546...5-6914
Data Entry Spvr.....	J. Ferguson.....	W-3541...5-6914

FORMAGAIN Unit

Supervisor.....	vacant.....	M1B-43...3-0822
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MANAGEMENT UNITS

Areas in square kilometres at March 31

CROWN LAND FORESTS						
Year	No.	Crown Area	No.	Company Area	No.	FMA Area
1981	78	333,402.0	14	165,016.0	5	45,584.0
1982	82	333,571.0	15	156,006.0	8	52,406.0
1983	77	333,781.0	13	139,120.0	13	70,218.0
1984	75	321,122.0	12	126,461.0	17	88,971.0
1985	74	330,575.0	10	104,577.0	22	113,631.0

AGREEMENT FORESTS

Total No.	Area	No.	Area
97	544,002.0	60	1,096.6
105	541,983.0	58	1,013.0
103	543,119.0	58	1,109.0
104	536,554.0	58	1,108.0
106	548,783.0	58	1,108.0

STATUS OF FOREST MANAGEMENT PLANS, MARCH 31, 1985

Areas in square kilometres

	Forest Management Units						Agreement Forests	
	No.	Crown Area	No.	Company Area	No.	FMA Area	No.	Area
Approved Mgmt. Plans	25	80,080	5	84,705	11	68,975	34	588
Forest Mgmt. Plans submitted for review and approval	29	105,307	4	18,993	6	19,997	3	142
Forest Mgmt. Plans being prepared	9	36,798	1	879	5	24,659	21	378
Plans are not req'd (Inactive)	11	104,586	-	-	-	-	-	-
Unalienated Crown Lands	-	3,804	-	-	-	-	-	-
Total	74	330,575	10	104,577	22	113,631	58	1,108

TIMBER LICENCES under the Crown Timber Act

Areas in square kilometres at March 31

Year	Under Section 2		Under Section 3		Under Section 5	
	No.	Area	No.	Area	No.	Area
1981	56	69.4	423	198,334.8	64	329.7
1982	34	48.0	412	181,297.1	58	643.0
1983	26	32.3	415	178,967.1	52	545.6
1984	34	37.4	442	159,133.5	29	407.9
1985	34	27.0	456	141,368.3	27	169.6

Under Section 6		Total Licences	
No.	Area	No.	Area
5	45,583.8	548	244,317.7
8	61,788.8	512	243,776.9
13	79,627.8	506	259,172.8
17	88,998.9	522	248,577.7
22	113,122.2	539	254,687.1

Note: Number of District Cutting Licences/Permits issued during 1984/85 was 3,016.

MILL LICENCES

Type of Mill	1980	1981	1982	1983	1984
Saw Mills, 8-hour capacity					
Lumber....over 50M fbm	60	60	59	58	55
Lumber....10M to 50M fbm	96	85	87	88	72
Lumber....under 10M fbm	648	608	593	613	599
Misc. Sawn Products	38	50	68	44	45
Saw Mills, Total	842	803	807	803	771
Veneer Mills	31	25	26	25	28
Pulp Mills	21	21	21	20	20
Total	894	849	854	848	819

TIMBER HARVESTED ON CROWN LANDS BY SPECIES

In cubic metres and \$000s in years ending March 31

Species	1981	1982	1983	1984	1985
SOFTWOOD					
Balsam	926,677	718,975	586,883	638,428	723,544
Cedar	13,972	13,659	17,195	18,667	23,478
Hemlock	59,109	63,504	47,361	65,111	79,230
Jack Pine	5,927,897	5,362,713	4,135,200	5,182,626	5,618,274
Red Pine	187,494	183,663	168,759	193,575	197,854
White Pine	495,271	529,159	563,024	754,044	728,257
Spruce	8,692,652	7,724,772	6,707,133	8,423,622	8,987,681
Tamarack	5,658	2,330	1,168	2,740	1,311
Mixed	10,017	18,503	30,599	20,691	14,236
HARDWOOD					
Ash	1,519	2,021	1,558	1,516	3,770
Basswood	9,069	11,042	7,769	8,544	27,777
Beech	15,737	19,581	18,377	17,999	32,996
White Birch	62,557	77,523	93,562	83,668	180,990
Yellow Birch	90,478	105,982	78,058	94,616	106,382
Butternut	16	16	36	21	38
Cherry	634	1,373	1,584	2,046	2,269
Elm	111	39	165	35	19
Ironwood	-	1	1	2	1
Maple	178,833	219,345	164,317	204,384	447,911
Oak	10,845	11,389	10,415	14,190	13,960
Poplar	1,414,955	1,800,431	1,505,038	2,243,088	2,641,390
Mixed	633,769	647,366	648,316	743,663	852,633
TOTALS					
Softwoods	16,318,746	14,617,179	12,257,322	15,299,504	16,373,865
Hardwoods	2,418,525	2,896,121	2,529,198	3,413,771	4,310,135
Total	18,737,271	17,513,300	14,786,521	18,713,275	20,684,000
Value	\$43,727	\$42,453	\$35,037	\$47,151	\$60,965

VOLUME AND VALUE OF TIMBER CUT FROM CROWN LANDS

in year ending March 31, 1985

Tree Species	Volume in Cubic Metres	Bonus \$	Crown Dues \$	Stumpage Value \$
SOFTWOODS				
White Pine	728,256.549	894,102.67	2,074,236.01	2,968,338.68
Red Pine	197,854.039	218,711.68	564,880.48	783,592.16
Jack Pine	5,618,274.070	605,976.46	18,044,732.10	18,650,708.56
White Spruce	133,134.632	6,330.56	457,003.33	463,333.89
Black Spruce	660,336.859	27,785.71	2,338,918.53	2,366,704.24
Spruce, Mixed	8,194,209.569	1,075,810.80	26,362,624.84	27,438,435.64
Hemlock	79,229.942	19,519.73	216,507.99	236,027.72
Balsam	723,544.004	75,184.63	2,230,690.10	2,305,874.73
Cedar	23,478.279	8,985.41	66,405.51	75,390.92
Tamarack	1,310.856	256.98	3,816.06	4,073.04
Conifers, Mixed	14,236.244	4,066.04	7,896.16	11,962.20
Total Softwoods	16,373,865.043	2,936,730.67	52,367,711.11	55,304,441.78
HARDWOODS				
Maple	447,910.876	541,887.18	1,004,295.35	1,546,182.53
Yellow Birch	106,381.767	189,462.90	310,479.54	499,942.44
White Birch	180,989.767	179,725.08	115,498.75	295,223.83
Oak	13,959.517	33,616.66	34,944.38	68,561.04
Beech	32,995.689	14,652.43	79,647.23	94,299.66
Ash	3,769.705	6,728.94	7,456.23	14,185.17
Elm	18.849	12.76	68.71	81.47
Basswood	27,777.339	46,573.94	51,986.25	98,560.19
Butternut	38.081	243.84	127.97	371.81
Ironwood	1.464	-	0.62	0.62
Cherry	2,268.798	808.36	6,269.62	7,077.98
Poplar	2,641,390.012	243,325.30	1,850,993.24	2,094,318.54
Hardwoods, Mixed	852,632.724	389,440.49	551,866.43	941,306.92
Total Hardwoods	4,310,134.588	1,646,477.88	4,013,634.32	5,660,112.20
GRAND TOTAL	20,683,999.631	4,583,208.55	56,381,345.43	60,964,553.98

TIMBER HARVESTED ON CROWN LANDS BY METHOD OF MEASUREMENT

in cubic metres and \$000s in years ending March 31

Year	Stacked		Cubic	
	Softwood	Hardwood	Softwood	Hardwood
1980	4,698,427	770,447	6,559,707	715,644
1981	4,380,421	723,064	6,339,098	513,585
1982	3,889,894	558,760	5,070,186	611,389
1983	2,974,245	650,425	4,313,754	525,436
1984	3,192,571	499,699	5,354,306	903,933
1985	3,068,026	648,690	5,220,857	1,396,957

Year	Foot Board Measure			Mass	Total	Stumpage Value
	Grade 1	Grade 2	Grade 3			
1980	131,394	207,162	109,406	6,213,058	19,405,245	\$46,184
1981	90,064	144,986	70,785	6,475,267	18,737,271	\$43,727
1982	107,244	181,592	81,943	6,719,923	17,513,300	\$42,453
1983	79,545	131,481	71,228	6,040,406	14,786,521	\$35,037
1984	104,431	157,403	81,517	8,419,414	18,713,275	\$47,151
1985	150,831	283,953	200,338	9,714,347	20,684,000	\$60,965

TIMBER HARVESTED ON CROWN LANDS BY REGION

Administrative Regions of Ministry of Natural Resources
in cubic metres in years ending March 31

Region	1981	1982	1983	1984	1985
Northwestern					
Softwoods	3,925,760	3,688,116	2,888,440	3,830,981	3,856,741
Hardwoods	55,195	71,194	76,868	90,337	135,361
North Central					
Softwoods	5,138,761	4,464,605	4,007,835	4,368,590	4,706,900
Hardwoods	859,906	923,375	847,995	1,133,546	1,533,812
Northern					
Softwoods	5,576,718	4,795,869	3,945,635	5,200,631	5,778,030
Hardwoods	432,151	538,589	533,394	781,957	740,893
Northeastern					
Softwoods	1,181,886	1,315,205	1,093,690	1,517,671	1,613,782
Hardwoods	552,629	766,063	523,773	703,510	949,961
Algonquin					
Softwoods	477,330	324,081	294,264	363,038	393,113
Hardwoods	436,581	492,500	442,689	606,772	847,382
Eastern					
Softwoods	18,291	29,304	22,852	18,595	23,928
Hardwoods	82,063	104,400	104,479	97,649	101,541
Central					
Softwoods	-	-	4,607	-	1,371
Hardwoods	-	-	-	-	1,183
Southwestern					
Softwoods	-	-	-	-	-
Hardwoods	-	-	-	-	-
Totals, Ontario					
Softwoods	16,318,746	14,617,179	12,257,322	15,299,504	16,373,865
Hardwoods	2,418,525	2,896,121	2,529,198	3,413,771	4,310,135
Grand Total	18,737,271	17,513,300	14,786,521	18,713,275	20,684,000

TIMBER HARVESTED ON CROWN LANDS BY METHOD OF MEASUREMENT AND TREE SPECIES
in year ending March 31, 1985

Unit of Measurement Tree Species	Billing Units	Equivalent Cubic Metres	Crown Dues \$	Stumpage Value \$
<hr/>				
STACKED, ROUGH				
White Pine	18,306.925	18,306.925	52,036.28	59,760.37
Red Pine	11,802.381	11,802.381	33,132.34	33,533.32
Jack Pine	909,061.773	909,061.773	2,931,895.16	3,017,308.07
Black Spruce	13.000	13.000	37.08	37.08
Spruce, Mixed	1,378,474.557	1,378,474.557	4,425,592.27	4,560,053.15
Hemlock	990.114	990.114	2,822.89	2,827.21
Balsam	82,422.847	82,422.847	235,717.99	245,586.17
Cedar	5,706.606	5,706.606	16,054.27	16,334.37
Tamarack	553.483	553.483	1,562.45	1,604.49
White Birch	28,412.735	28,412.735	18,358.57	46,659.85
Poplar	446,713.451	446,713.451	300,622.42	335,864.17
Hardwoods, Mixed	2,276.083	2,276.083	1,329.79	1,329.79
<hr/>				
SUB-TOTAL	2,884,733.955	2,884,733.955	8,019,161.51	8,320,898.04
<hr/>				
STACKED, PEELED				
Jack Pine	85,723.651	85,723.651	303,043.15	308,316.97
Spruce, Mixed	466,283.336	466,283.336	1,621,040.63	1,653,600.76
Balsam	96,887.673	96,887.673	294,502.12	301,286.66
White Birch	8.471	8.471	24.16	41.51
Poplar	53,698.421	53,698.421	43,768.78	46,317.65
<hr/>				
SUB-TOTAL	702,601.552	702,601.552	2,262,378.84	2,309,563.55
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Unit of Measurement Tree Species	Billing Units	Equivalent Cubic Metres	Crown Dues \$	Stumpage Value \$
<hr/>				
CUBIC METRES				
White Pine	483,638.290	484,009.810	1,371,420.46	1,968,175.97
Red Pine	111,114.393	111,909.273	315,052.44	463,777.38
Jack Pine	929,731.543	929,731.543	3,023,364.68	3,109,269.22
White Spruce	133,134.632	133,134.632	457,003.33	463,333.89
Black Spruce	660,323.859	660,323.859	2,338,881.45	2,366,667.16
Spruce, Mixed	2,651,826.440	2,651,893.535	8,623,665.94	9,001,642.47
Hemlock	58,989.953	58,989.953	155,966.96	173,200.83
Balsam	169,898.511	169,898.511	528,090.62	549,956.48
Cedar	17,771.673	17,771.673	50,351.24	59,056.55
Tamarack	757.373	757.373	2,253.61	2,468.55
White Birch	152,378.507	152,378.507	97,013.37	248,409.47
Poplar	1,032,045.677	1,032,045.677	727,115.25	810,286.80
<hr/>				
SUB-TOTAL	6,401,610.851	6,402,844.346	17,690,179.35	19,216,244.77
<hr/>				
BOARD FOOT MEASURE, GRADE 1				
Maple	13,027.290	101,290.353	479,046.56	661,706.64
Yellow Birch	6,002.540	31,552.819	169,819.56	240,474.34
Oak	620.110	3,873.899	20,093.63	35,592.89
Beech	1,332.380	6,690.275	35,234.68	39,970.65
Ash	63.760	839.023	3,623.58	5,872.87
Elm	2.220	10.687	54.95	65.63
Basswood	461.410	5,849.647	25,370.71	40,625.69
Butternut	3.610	17.692	89.44	175.56
Cherry	69.170	706.579	3,100.26	3,360.79
<hr/>				
SUB-TOTAL	21,582.490	150,830.974	736,433.37	1,027,845.06
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Unit of Measurement Tree Species	Billing Units	Equivalent Cubic Metres	Crown Dues \$	Stumpage Value \$
BOARD FOOT MEASURE, GRADE 2				
Maple	24,876.800	198,282.605	461,280.75	694,086.21
Yellow Birch	9,050.710	51,280.776	129,932.82	237,277.13
Oak	900.590	5,714.254	12,955.03	27,079.90
Beech	2,805.130	15,557.718	39,422.03	46,559.75
Ash	110.190	1,549.500	3,271.12	5,967.62
Elm	0.920	4.578	12.18	14.26
Basswood	691.860	10,280.608	21,786.30	40,838.47
Butternut	2.770	15.541	36.56	185.22
Cherry	181.800	1,267.159	3,033.92	3,526.24
SUB-TOTAL	38,620.770	283,952.739	671,730.71	1,055,534.80
BOARD FOOT MEASURE, GRADE 3				
Maple	13,671.270	148,337.918	63,968.04	190,389.68
Yellow Birch	3,128.040	23,548.172	10,727.16	22,190.97
Oak	572.660	4,371.364	1,895.72	5,888.25
Beech	1,707.270	10,747.696	4,990.52	7,769.26
Ash	63.880	1,381.182	561.53	2,344.68
Elm	0.610	3.584	1.58	1.58
Basswood	814.500	11,647.084	4,829.24	17,096.03
Butternut	0.720	4.848	1.97	11.03
Ironwood	0.230	1.464	0.62	0.62
Cherry	51.990	295.060	135.44	190.95
SUB-TOTAL	20,011.170	200,338.372	87,111.82	245,883.05

Units of Measurement Tree Species	Billing Units	Equivalent Cubic Metres	Crown Dues \$	Stumpage Value \$
MASS-SCALED WOOD				
White Pine	185,496.599	225,939.814	650,779.27	940,402.34
Red Pine	62,724.455	74,142.385	216,695.70	286,281.46
Jack Pine	2,984,609.399	3,693,757.103	11,786,429.11	12,215,814.30
Spruce, Mixed	2,843,422.334	3,697,558.141	11,692,326.00	12,223,139.26
Hemlock	17,863.889	19,249.875	57,718.14	59,999.68
Balsam	351,421.060	374,334.973	1,172,379.37	1,209,045.42
Poplar	1,098,872.784	1,108,851.885	779,434.28	901,781.29
Hardwoods, Mixed	573,998.363	512,501.540	346,790.55	486,696.19
SUB-TOTAL	8,118,408.883	9,706,335.716	26,702,552.42	28,323,159.94
FUELWOOD, STACKED, CUBIC METRES				
Conifers, Mixed	11,799.459	11,799.459	6,178.80	6,443.61
Hardwoods, Mixed	117,851.911	117,581.076	72,808.43	128,466.61
SUB-TOTAL	129,651.370	129,380.535	78,987.23	134,910.22
FUELWOOD, CUBIC METRES				
Conifers, Mixed	2,436.785	2,436.785	1,717.36	5,518.59
White Birch	190.054	190.054	102.65	113.00
Poplar	80.578	80.578	52.51	68.63
Hardwoods, Mixed	212,262.293	212,262.293	125,098.36	226,863.35
SUB-TOTAL	214,969.710	214,969.710	126,970.88	232,563.57
FUELWOOD, MASS-SCALED				
Hardwoods, Mixed	9,215.237	8,011.732	5,839.30	97,950.98
SUB-TOTAL	9,215.237	8,011.732	5,839.30	97,950.98
TOTAL TIMBER CUT IN PROVINCE		20,683,999.631	56,381,345.43	60,964,553.98

Number of District Cutting Licences/Permits issued and included in the above: 3,016

PRINCIPAL STATISTICS OF ONTARIO'S FOREST INDUSTRY BY SECTOR

Source: Statistics Canada

Sector	Establishments Number	Total Employees Number	Total Salaries & Wages \$000s	Fuel and Electricity \$000s
1979				
Logging	321	9,684	197,276	17,084
Wood Industries	761	22,902	320,144	31,134
Paper and Allied	334	46,172	827,101	252,576
Total	1,416	78,758	1,344,521	300,794
Furniture and Fixtures	618	23,650	307,672	9,856
1980				
Logging	391	9,578	215,652	24,072
Wood Industries	778	21,348	328,793	33,475
Paper & Allied	349	47,861	926,779	279,530
Total	1,518	78,787	1,471,224	337,077
Furniture and Fixtures	607	23,703	340,550	11,254
1981				
Logging	418	9,003	230,052	30,562
Wood Industries	774	20,970	362,998	43,705
Paper & Allied	342	47,381	1,044,810	324,780
Total	1,534	77,354	1,637,860	399,047
Furniture and Fixtures	610	25,856	416,922	15,181
1982				
Logging	418	7,079	193,796	33,320
Wood Industries	794	19,015	334,260	46,144
Paper & Allied	347	43,917	1,078,919	351,385
Total	1,559	70,011	1,606,975	430,849
Furniture and Fixtures	644	23,684	398,558	19,285
1983				
Logging	472	7,826	227,797	39,425
Wood Industries	820	19,562	381,158	54,659
Paper & Allied	301	41,001	1,110,512	381,789
Total	1,593	68,389	1,719,467	475,873
Furniture and Fixtures	707	23,218	427,289	21,244

Sector	Materials & Supplies \$000s	Value of Shipments \$000s	Total Value Added \$000s
1979			
Logging	306,121	588,598	278,921
Wood Industries	690,807	1,319,647	629,169
Paper and Allied	2,007,803	3,872,205	1,661,591
Total	3,004,731	5,780,450	2,569,681
Furniture and Fixtures	503,463	1,043,909	547,979
1980			
Logging	365,267	668,003	319,883
Wood Industries	712,130	1,275,892	562,631
Paper and Allied	2,368,722	4,598,977	1,992,117
Total	3,446,119	6,542,872	2,874,631
Furniture and Fixtures	606,934	1,224,628	615,070
1981			
Logging	381,431	717,927	327,515
Wood Industries	791,939	1,436,082	619,138
Paper and Allied	2,702,821	5,129,829	2,136,084
Total	3,876,191	7,283,838	3,082,737
Furniture and Fixtures	718,103	1,455,964	755,591
1982			
Logging	346,243	678,892	287,982
Wood Industries	678,066	1,256,366	525,522
Paper & Allied	2,596,915	4,841,076	1,939,371
Total	3,621,224	6,776,334	2,752,875
Furniture and Fixtures	646,963	1,347,435	682,402
1983			
Logging	398,704	793,959	355,758
Wood Industries	848,804	1,572,204	698,513
Paper & Allied	2,676,283	5,041,628	2,010,011
Total	3,923,791	7,407,791	3,064,282
Furniture and Fixtures	726,011	1,527,767	785,223

Note:

Furniture and Fixtures does not include furniture upholstery, re-upholstery and repair shops.

MINERAL RESOURCES GROUP*

Room W-6341, Main Office Telephone: (416) 965-4271

Executive Co-ordinator.....	J. E. Finlay.....	W-6341.....4271
Secretary.....	Ms. P. Barchuk.....	W-6341.....4271
Communications Planner.....	E. B. Freeman.....	W-4642.....3127

ONTARIO GEOLOGICAL SURVEY

Room 1121, 77 Grenville St., Toronto, Ont. M5S 1B3 Telephone: (416) 965-1283

Director.....	Dr. V. G. Milne.....	R-1121.....1283
Executive Officer.....	G. Fromhold-Treu.....	R-1118.....1283
Regional Liaison Geologist.....	C. R. Kustra.....	R-1119.....5180
Geoscience Research Grant Program	R. B. Watson.....	R-1125.....1546
Exploration Technology Dev. Fund.	R. B. Watson.....	R-1125.....1546
Precambrian Geology Section.....	J. Wood, Chief.....	R-916.....1321
North Archean Group.....	H. Wallace.....	R-901.....1827
Central Archean Group.....	Dr. P. C. Thurston.....	R-924.....1827
South Archean Group.....	N. F. Trowell.....	R-907.....4817
Proterozoic Group.....	Dr. B. O. Dressler.....	R-903.....2326
Engineering & Terrain		
Geology Section.....	Dr. O. L. White, Chief..	R-707.....1182
Paleozoic & Mesozoic Subsection	Dr. P. G. Telford.....	R-706.....1183
Hydrocarbon Energy Res. Program	Dr. P. G. Telford.....	R-706.....1183
Quaternary Geology Subsection..	E. V. Sado.....	R-705.....1183
Aggregate Assessment Office....	S. Szoke.....	M1B-45.....1663
Geophysics/Geochemistry Section	R. B. Barlow, Chief.....	R-708.....1697
Mineral Deposits Section.....	Dr. A. C. Colvine, Chief	R-1026.....4261
Geoservices Section.....	G. E. Soucie, Chief.....	R-915.....5601
Geoscience Data Centre.....	H. A. Groen.....	R-804.....4641
Assessment Files Research.....	R. C. Owen.....	R-819.....6139
Geoscience Information.....	R. McKnight.....	R-807.....0190
Scientific Review.....	Mrs. G. M. Scott.....	R-718.....7325
Geoscience Laboratories.....	Dr. C. Riddle.....	R-1117.....1337
Mines Library.....	Mrs. N. Thurston.....	R-812.....1352

*See Mining Lands and Prospecting Activities under Lands Administration Branch.

LIST OF FIELD SURVEYS (REGULAR PROGRAM)

Ontario Geological Survey 1984

No.	Location	Leaders
PRECAMBRIAN GEOLOGY SECTION		
1.	Regional Stratigraphy and Structure of the Central Uchi Subprovince.....	G. M. Stott H. Wallace
2.	Reconnaissance Investigations of Granitoid and Metasedimentary Terrains.....	G. Beakhouse
3.	Kakagi Lake-Rowan Lake Regional Geology.....	G. W. Johns
4.	Geology of the Mulcahy Lake Gabbro Intrusion.....	R. H. Sutcliffe
5.	Atikokan-Lakehead Compilation Project.....	P. C. Thurston
6.	Goldie and Horne Townships, District of Thunder Bay	M. W. Carter
7.	Hemlo Stratigraphic Study.....	T. L. Muir
8.	White Lake Area and Animons Lake Area, District of Thunder Bay.....	G. M. Siragusa
9.	Josephine-Goudreau Area, District of Algoma.....	R. P. Sage
10.	Batchawana Synoptic Project.....	E. C. Grunsky
11.	Geochronological Studies in the Batchawana Area....	E. C. Grunsky
12.	Snider Township, District of Sudbury.....	J. M. Martins
13.	Footwall and Sublayer of the Northwestern Sudbury Igneous Complex.....	P. Brockmeyer R. Lakomy
14.	Digby-Lutterworth Area, Haliburton and Victoria.... Counties.....	R. M. Easton M. Van Kranendonk
15.	Mellon Lake Area, Hastings, Lennox and Addington Counties.....	E. G. Bright
16.	Geological Computer Software Developments.....	E. J. Ambrose D. Wright E. C. Grunsky
ENGINEERING AND TERRAIN GEOLOGY PROGRAMS		
17.	Quaternary Geology of the Hemlo Area.....	R. S. Geddes
18.	Quaternary Geology of the Port Stanley Area.....	A. Dreimanis P. J. Barnett
19.	Quaternary Geology of the Brampton Area.....	P. F. Karrow
20.	Aggregate Resources Inventory Program, Staff of the Aggregate Assessment Office.....	
GEOPHYSICS/GEOCHEMISTRY PROGRAMS		
21.	Gravity Mapping in the Kirkland Lake-Larder Lake-Matheson Area.....	V. K. Gupta D. R. Wadge P. H. Mark
22.	Applications of Gravity Maps in Geological Mapping and Mineral Exploration.....	V. K. Gupta
23.	Electromagnetic Depth Sounding of Quaternary Sequences in Black River-Matheson (BRIM) Area.....	R. B. Barlow D. H. Krentz
24.	Night Hawk Geophysical Test Range Results.....	R. B. Barlow
25.	The Use of Remote Sensing for the Study of Acid Lakes.....	J.A.C. Fortescue

MINERAL DEPOSIT PROGRAMS

- | | |
|---|--|
| 26. Gold Studies in the Red Lake Area..... | A. J. Andrews
M. J. Lavigne |
| 27. Alteration, Metamorphism, and Structure Associated
with Archean Volcanic-Hosted Gold Deposits..... | A. J. Andrews |
| 28. Ductile Deformation Zones and their Significance in
the Tectonic and Mineralization History of the Red
Lake Belt..... | H. Hugon |
| 29. Structural Studies in Northern Dome and Southern
McDonough Townships, Red Lake District..... | P. M. Berger
H. Helmtaedt |
| 30. Shear Fracturing, Dike and Vein Intrusion, and
Gold Mineralization in the Red Lake Belt..... | B. C. Wilson
H. Helmstaedt
J. M. Dixon |
| 31. Structural Geology and Mineralization of the West
Carbonate Zone, Red Lake..... | M. M. Sanborn |
| 32. The Hemlo Deposit: Gold Mineralization Within a
Dextral Shear Zone..... | H. Hugon |
| 33. Studies of Mineral Deposits in the Abitibi Belt.... | M. E. Cherry |
| 34. Structural Geology and Gold Mineralization in the
Kirkland Lake-Larder Lake Deformation Zone..... | J. V. Hamilton
C. J. Hodgson |
| 35. Preliminary Report on the Geology of the Detour
Lake Gold Mine..... | S. Marmont |
| 36. Geology of the McLean Lake-Lundy Lake Area..... | L. Owsjacki |
| 37. Age-dating of Gold Mineralization in the Abitibi
Belt..... | S. Marmont |
| 38. Geology and Placer Related Gold Potential of the
Huronian Supergroup..... | D.G.F. Long
A. C. Colvine |
| 39. Granite and Anorthosite as Ceramic Raw Materials... | M. A. Vos |

LIST OF FIELD SURVEYS (SPECIAL PROGRAM)

Ontario Geological Survey 1984

No.	Location	Leaders
PRECAMBRIAN GEOLOGY PROGRAMS		
1.	Geology of the Bigstone Bay Area.....	J. A. Ayer
2.	MacGregor Township, District of Thunder Bay.....	J. Scott
ENGINEERING AND TERRAIN GEOLOGY PROGRAMS		
3.	Peatland Inventory Project.....	J. L. Riley
4.	Geology of the Long Rapids Formation, Moose River.....	D. J. Russell
	Basin, James Bay Lowland.....	P. G. Telford
5.	Lignite Assessment Project, Moose River Basin, James Bay Lowland.....	P. G. Telford
MINERAL DEPOSITS PROGRAMS		
6.	The Structural and Stratigraphic Control of Gold in the Lake of the Woods Area.....	J. C. Davies P. M. Smith
7.	The Geological Setting of the Duport Mine, Cameron Island, Shoal Lake.....	P. M. Smith
8.	Gold Mineralization in the Shebandowan Area.....	L. Chorlton G. H. Brown
9.	Structural Studies in the Geraldton Area.....	S. Buck H. R. Williams
INTERDISCIPLINARY GEOSCIENCE PROGRAMS		
10.	<u>The Opapimiskan Lake Project</u> Precambrian Geology, Quaternary Geology and Mineral Deposits of the North Caribou Lake Area, District of Kenora, Patricia Portion.....	F. W. Breaks J. R. Bartlett E. A. DeKemp P. F. Finamore G. R. Jones A. J. Macdonald H. N. Shields H. Wallace
<u>The Black River - Matheson (BRIM) Program</u>		
11.	Precambrian Geology.....	R. Johnstone N. F. Trowell
12.	Quaternary Geology of the Porquois Junction and Watabeag River.....	J. A. Richard
13.	An Airborne Electromagnetic-Magnetic Survey.....	R. B. Barlow D. H. Pitcher
14.	Mineral Deposits Investigations.....	P. J. Whittaker J. Malczak
15.	Reconnaissance Till Sampling Program.....	C. L. Baker K. G. Steele J.A.C. Fortescue
16.	Mapping Overburden, Employing an Airborne Time-Domain System.....	D. H. Pitcher R. Barlow J. D. McNeill

GEOSCIENCE RESEARCH GRANT PROGRAM

Summary of projects and allocations in years ending March 31

	1981	1982	1983	1984	1985
Universities	Projects	Projects	Projects	Projects	Projects
Brock.....	1	2	1	1	-
Carleton.....	2	1	2	2	3
Guelph.....	-	-	-	-	-
Lakehead.....	1	-	-	-	1
Laurentian.....	3	1	-	-	-
McMaster.....	1	1	1	1	3
Ottawa.....	-	-	-	-	1
Queen's.....	3	1	3	3	3
Toronto.....	10	8	9	9	7
Waterloo.....	2	2	3	3	3
Western.....	5	4	2	2	2
Windsor.....	1	1	1	1	-
York.....	-	-	1	1	1
Total.....	29	21	23	23	24
	\$536,447	\$418,289	\$500,000	\$500,000	\$451,700

EXPLORATION TECHNOLOGY DEVELOPMENT FUND PROGRAM

Summary of projects and allocations in years ending March 31

Company	Projects Accepted	Projects Accepted	Projects Accepted	Projects Accepted
	1982	1983	1984	1985
A-Cubed Inc.....	-	-	-	1
Aerodat Ltd.....	-	-	1	-
Alpha NUCLEAR Company.....	1	1	-	-
Androtex Ltd.....	-	1	1	1
C.W. Archibald Ltd.....	-	1	-	-
Barringer Magenta/Research Ltd.....	2	-	2	1
Crone Geophysics Ltd.....	1	1	1	1
Dighem Ltd.....	-	1	1	1
EDA Instruments Incorporated.	1	-	-	1
GEM Systems Ltd.....	1	1	-	1
Geonics Ltd.....	-	-	1	-
Geotech Ltd.....	1	1	1	1
G. F. Gleeson & Associates and Terrain Analysis and Mapping Services Ltd.....	-	-	1	-
Herz Industries Ltd.....	-	1	-	-
Huntec ('70) Ltd.....	-	1	1	-
IFG Company.....	-	-	1	1
Jodex Applied Geoscience Ltd.	-	-	-	1
Lamontagne Geophysics Ltd....	1	1	1	1
McPhar Instruments Corp.....	-	1	1	-
Morris Magnetics.....	-	-	1	2
Nuclear Activation Services Ltd.....	1	1	1	-
Paterson, Grant & Watson Ltd.	1	1	1	1
Phoenix Geophysics Ltd.....	1	1	1	1
Questor Surveys Ltd.....	2	2	1	-
RMS Instruments Ltd.....	-	-	1	1
Scintrex Ltd.....	1	1	2	-
Technical Services Laboratories Ltd.....	1	-	-	-
X-Ray Assay Laboratories Ltd.	-	-	1	1
X-Ray Assay Laboratories Ltd. and Teck Exploration Ltd.....	-	-	-	1
Accepted.....	15	17	22	18
Grants Paid.....	\$520,000	\$985,000	\$894,267	\$876,300

PUBLICATIONS RELEASED

Ontario Geological Survey

Types of Publication	1979	1980	1981	1982	1983	1984
Preliminary Maps.....	183	205	134	143	53	75
Geoscience Data Inventory Folios.....	-	-	-	1	102	76
Colored Geology Maps.....	14	9	21	12	15	25
N. Ontario Engineering & Terrain Geology Maps.....	11	51	31	-	15	-
Geophysical/Geochemical Maps.....	426	34	77	36	1	142
Aggregate Resource Inventory Papers.....	1	21	19	18	8	19
Guidebooks.....	1	-	-	-	1	1
Mineral Deposit Circulars.....	2	-	4	1	-	-
Miscellaneous Papers.....	7	7	8	7	11	7
Non-Serial Publications.....	3	4	7	8	13	7
N. Ontario Engineering & Terrain Studies	-	42	24	-	10	-
Open File Reports.....	22	42	41	32	52	52
Reports.....	11	7	12	10	10	4
Studies.....	1	-	1	3	3	-

GEOSCIENCE DATA CENTRE

Office Operations	1979	1980	1981	1982	1983	1984	1946-84
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EXPLORATION REPORTS
ADDED

Technical Surveys for Assessment Credit	350	453	821	860	918	1,381	10,997
MEAP	50	46	*35	-	-	-	518
OMEP	-	-	-	-	103	131	234
Miscellaneous	77	150	75	72	67	103	1,434
Drilling Reports	340	310	388	361	407	538	10,725
Licence of Occupation	(a)	(a)	3	3	-	-	83

OPERATIONS

Customer Days	2,150	2,606	2,444	2,123	3,061	3,165
Telephone Inquiries	437	553	569	385	369	356
Exploration Reports Examined	15,640	17,696	17,769	14,603	21,757	20,544
Mineral Deposit Files Examined	2,560	5,024	4,729	4,647	7,713	12,065

Mineral Resources Group

MINERAL RESOURCES BRANCH

Room W-4626, Main Office Telephone (416) 965-1559

Branch Director.....	Dr. T. P. Mohide.....	W-4626...5-1559
Mineral Statistics Section.....	G. L. Weatherson, Spvr..	W-4632...5-0211
Metallic Minerals Section.....	Dr. G. Anders, Spvr.....	W-4625...5-1311
Industrial Minerals Section.....	D. W. Scott, Spvr.....	W-4646...5-1172
Fuel Minerals Section.....	S. Keen, Spvr.....	W-4629...3-1882

ONTARIO MINERAL PRODUCTION IN 1983 AND 1984

1984 figures are preliminary

		1983		1984	
Unit	Quantity	Value \$	Quantity	Value \$	
METALLIC MINERALS					
Cadmium	kg	668,402	1,637,862	1,015,000	4,957,000
Calcium	kg	398,984	3,306,450	N/A	N/A
Cobalt	kg	1,024,768	16,602,079	1,890,000	54,304,000
Copper	kg	226,796,167	457,348,815	291,107,000	552,231,000
Gold	g	23,260,217	389,337,983	26,472,000	399,731,000
Iron Ore	tonne	3,815,698	183,793,038	4,478,000	235,065,000
Lead	kg	6,543,900	2,865,309	8,223,000	6,050,000
Magnesium	kg	5,980,265	21,978,106	N/A	N/A
Nickel	kg	88,291,560	550,124,912	138,417,000	925,871,000
Platinum Grp.	kg	6,964	79,155,805	10,614	120,643,000
Selenium	kg	35,254	334,615	224,000	5,763,000
Silver	kg	414,696	197,916,854	506,000	177,010,000
Tellurium	kg	1,264	34,633	14,000	394,000
Tin	kg	3,732	81,495	-	-
Uranium (U)	kg	4,767,120	535,770,365	4,381,000	538,733,000
Zinc	kg	274,818,534	280,505,720	294,237,000	413,991,000
Total Value, Metallics		2,720,794,041	3,434,743,000		

		1983		1984	
	Unit	Quantity	Value \$	Quantity	Value \$
NON-METALLIC MINERALS					
Barite	tonne	5,000	1,600,000	N/A	1,500,000
Gemstone	kg	54,000	63,525	N/A	56,000
Gypsum	tonne	907,042	9,937,629	1,104,000	13,408,000
Magnetite	tonne	3,304	39,941	N/A	N/A
Nepheline Syenite	tonne	523,249	18,912,825	485,000	17,671,000
Peat	tonne	4,629	711,443	7,000	803,000
Quartz	tonne	386,706	10,559,822	390,000	10,400,000
Salt	tonne	5,479,984	98,726,006	6,502,000	124,397,000
Serpentine Filler	tonne	3,407	443,364	N/A	N/A
Soapstone Talc	tonne	32,877	6,060,101	38,000	6,980,000
Sulphur in smelter gas	tonne	332,041	19,215,783	441,000	34,042,000
Sulphur Elemental	tonne	6,711	494,691	3,000	240,000
Terrazzo Chip	tonne	1,415	95,187	N/A	N/A
Total Value, Non-Metallic			166,860,317		209,497,000
FUELS					
Natural Gas	000 cu.m.	459,313	45,931,250	453,000	57,033,000
Petroleum	000 cu.m.	84,788	16,109,720	92,000	17,587,000
Total Value, Fuels			62,040,970		74,620,000

		1983		1984	
	Unit	Quantity	Value \$	Quantity	Value \$
STRUCTURAL MATERIALS					
Clay Prod.	-	N/A	73,297,428	N/A	86,130,000
Cement	tonne	3,200,775	212,263,334	3,100,000	222,859,000
Lime	tonne	1,586,375	89,251,887	1,545,000	91,000,000
Sand & Gravel	tonne	53,582,186	120,231,677	50,000,000	120,000,000
Stone	tonne	33,831,836	143,703,182	30,000,000	145,000,000
Total Value Structural Materials			638,747,508	664,989,000	
GRAND TOTAL FOR ONTARIO			3,588,442,836	4,383,849,000	

DIRECT COSTS OF THE MINERAL INDUSTRY IN ONTARIO

Year	Total Employment	Wages & Salaries \$	Fuel & Electricity \$	Process Supplies \$	Total Cost \$
1975	44,329	568,817,097	154,748,157	375,688,838	1,099,254,092
1976	44,585	647,549,765	199,216,913	424,029,472	1,270,796,150
1977	43,782	688,435,301	224,263,043	429,950,598	1,342,648,942
1978	33,234	589,143,142	199,018,565	392,059,456	1,180,221,163
1979	33,860	675,471,862	245,536,846	447,427,618	1,368,436,326
1980	41,252	863,044,670	296,889,343	601,153,558	1,761,087,571
1981	41,522	982,665,625	349,709,968	673,489,373	2,005,864,966
1982	38,277	948,599,962	306,710,300	494,342,597	1,749,652,859
1983	35,275*	973,229,166	348,537,991	531,633,004	1,853,400,161

*37,275 including 2,000 estimate of small sand & gravel and stone industries.

Source: Mineral Statistics Section, Ministry of Natural Resources

VALUE OF ONTARIO MINERAL OUTPUT BY MNR REGION

MNR Region	1981 \$	1982 \$	1983 \$
Algonquin Region			
Metallic Minerals	57,453,827	43,254,750	25,284,556
Non-metallic Minerals	17,609,906	17,933,892	18,952,766
Structural Materials	7,492,080	6,718,196	7,194,430
Total	82,555,813	67,906,838	51,431,752
Central Region			
Non-metallic Minerals	6,051,925	5,042,818	8,467,360
Natural Gas, Petroleum	1,165,152	1,128,305	1,229,210
Structural Materials	310,159,188	267,295,017	304,650,987
Total	317,376,265	273,466,140	314,347,557
Eastern Region			
Metallic Minerals	-	-	-
Non-metallic Minerals	626,327	720,846	1,289,241
Structural Materials	110,245,387	93,413,196	119,304,217
Total	110,871,714	94,134,042	120,593,458
North Central Region			
Metallic Minerals	107,652,059	96,071,087	104,490,748
Non-metallic Minerals	822,162	1,147,061	1,392,724
Structural Materials	7,476,124	6,749,816	8,965,836
Total	115,950,345	103,967,964	114,849,308

Northern Region			
Metallic Minerals	663,110,786	587,232,675	763,842,594
Non-metallic Minerals	6,529,727	10,041,788	13,426,866
Structural Materials	3,819,641	5,113,479	11,837,550
<hr/>			
Total	673,460,154	602,387,942	789,107,010
<hr/>			
Northeastern Region			
Metallic Minerals	2,194,717,693	1,375,065,540	1,526,563,192
Non-metallic Minerals	22,278,600	16,104,557	20,352,988
Natural Gas, Petroleum	-	-	3,420
Structural Materials	33,718,092	29,341,235	32,060,558
<hr/>			
Total	2,250,714,385	1,420,511,332	1,578,980,158
<hr/>			
Northwestern Region			
Metallic Minerals	296,700,224	247,712,787	300,612,951
Non-Metallic Minerals	884,781	666,134	1,592,163
Structural Materials	7,447,174	6,812,735	7,140,509
<hr/>			
Total	305,032,179	255,191,656	309,345,623
<hr/>			
Southwestern Region			
Natural Gas, Petroleum	44,503,163	54,993,391	60,808,340
Non-metallic Minerals	83,102,024	96,609,379	101,386,209
Structural Materials	147,306,189	130,884,042	147,593,421
<hr/>			
Total	274,911,376	282,486,812	309,787,970
<hr/>			
ONTARIO TOTAL	4,130,872,231	3,100,052,726	3,588,442,836
<hr/>			

MINERAL RESOURCES GROUP

MINING TAXATION & OMEP OFFICE

Room W-4649, Main Office Telephone (416) 965-1062

Director and Mine Assessor.....	K. S. Rachamalla.....	W-4649.....1062
Assistant Mine Assessors.....	A. Cutrona.....	W-4654.....9955
	R. Gunther.....	W-4654.....9955
	A. Stoddart.....	W-4654.....9955
OMEP		
Administrator.....	.....	W-4650.....1062
Evaluator.....	R. B. Huggins.....	W-4641.....1062

MINING TAX

Summary of mining tax in years ending March 31

	1982 \$ value millions	1983 \$ value millions	1984 \$ value millions	1985 \$ value millions
Mining Tax Collected.....	55.4	26.2	31.9	64.5
Total value of mineral production assessed.....	1,720.9	2,530.0	940.9	4,348.8
Taxes payable per assessments...	88.9	96.2	37.2	263.1
Total additional tax, interest & penalty.....	2.2	12.1	1.6	29.0
Total refund of taxes (paid in advance).....	4.8	4.8	0.3	0.2
No. of assessments completed....	48	48	41	74

OMEP ACTIVITY

In years ending March 31

	1981	1982	1983	1984	1985
Number of applications received....	114	159	209	398	439
Number of applications designated..	94	137	213	386	408
Number of designated programs completed and evaluated.....	33	49	159	182	196
Value of grants/tax credits issued for completed programs (\$ millions).....	\$1.3	\$1.4	\$4.6	\$6.4	\$6.4

OMEP DESIGNATED PROGRAMS BY COMMODITIES

In years ending March 31

	% of Total Expenditure				
	1981	1982	1983	1984	1985
Gold, Silver.....	86	77	85	94	95
Base Metals.....	4	6	3	2	1
Industrial Minerals.....	9	16	7	1	1
Other (uranium, etc.)....	1	1	5	3	3
Total	100	100	100	100	100

DETAILS OF COMPLETED OMEP PROGRAMS: ECONOMIC BENEFITS

In years ending March 31

	1981	1982	1983	1984	1985
EMPLOYMENT					
Number Employed.....	430	550	1,600	2,100	2,450
Work days.....	13,550	17,710	61,780	83,170	83,290
WAGES (\$ million).....	\$1.1	\$1.7	\$6.6	\$8.1	\$10.6
GOODS & SERVICES (\$ million)	\$5.0	\$5.6	\$17.4	\$23.5	\$20.2
DIAMOND DRILLING (metres)...	50,450	37,400	133,550	142,690	173,040

OMEP COMPLETED PROGRAMS: REGIONAL DISTRIBUTION

in years ending March 31

	No. of Programs		Total Expenditure (\$ millions)		Grants/ Tax Credits (millions)		% of Total	
	1984	1985	1984	1985	1984	1985	1984	1985
MNR Regions								
Northern.....	54	49	\$12	\$11	\$2.1	\$2.3	39	36
Northwestern.....	47	47	9	10	1.8	1.9	27	30
Northeastern.....	19	31	4	3	.9	.6	13	9
North Central.....	52	63	6	6	1.5	1.5	20	23
Algonquin & Eastern	10	6	1	1	.1	.1	1	2
Total	182	196	\$32	\$31	\$6.4	\$6.4	100	100

OUTDOOR RECREATION GROUP

Room W2340, Main Office Telephone (416) 965-5661

Executive Co-ordinator.....	T. J. Millard.....	W-2341...5-5661
Secretary.....	N. Ball.....	W-2340...5-5661
Enforcement Specialist.....	W. D. Gartley.....	W-2342...5-5661
Librarian.....	S. Louet.....	W-4540...5-6319
Provincial Parks Council		
Chairman.....	F. Gray.....	(416) 368-8305 Ex. 2574

WILDLIFE BRANCH

Room W-2320, Main Office Telephone (416) 965-4252

Branch Director.....	D. W. Simkin.....	W-2327....4254
Wildlife Planning Co-ordinator.....	W. L. Sleeth.....	W-2325....7641
Program Development & Audit		
Section.....	D. A. Hagan, Spvr.....	W-2321....4252
Habitat Development.....	D. M. Hogg.....	W-2309....7641
Moose/Caribou Program.....	R. A. Stefanski.....	W-2331....4252
Upland Game/Waterfowl Program...	J. L. Harcus.....	W-2332....4252
Deer/Bear Program.....	H. Smith.....	W-2323....4252
Non-game Program.....	I. E. Bowman.....	W-2330....4252
Wetland Habitat.....	V. A. Glooschenko.....	W-2322....7641
Extension Development Section.....	L. Whistance-Smith, Spvr	W-2326....4252
Wildlife Extension Officer.....	H. D. Jenkins.....	W-2320....4252
Wildlife Services Section.....	M. C. Smith, Spvr.....	W-2328....4252
Commercial Wildlife Program.....	M. Novak.....	W-2423....3345
Hunter Education.....	W. M. McKittrick.....	W-2306....7641
Legal Services.....	M. Chromec.....	W-2329....4252
Data System.....	J. M. Barbowski.....	W-2304....7641

Box 50, Maple, Ont. L0J 1E0 Telephone (416) 832-2761

Wildlife Research Section.....	C. D. MacInnes, Spvr....	Extension..241
Population Dynamics.....	D. J. Hussell.....	Extension..241
Bio-Electronic Scientist.....	Vacant.....	Extension..241
Field Studies Scientist.....	D. R. Voigt.....	Extension..241
Rabies Unit Leader.....	D. H. Johnston.....	Extension..241
Upland Game/Waterfowl Scientist.	H. G. Lumsden.....	Extension..241
Predator Scientist.....	G. B. Kolenosky.....	Extension..241
Disease/Parasites Scientist.....	E. M. Addison.....	Extension..241

HUNTING STATISTICS - Estimates compiled from hunters surveyed by mail

Comparison between hunter numbers and licence sales gives an estimate of the number of licence holders who did not hunt

Year	RESIDENT			NON-RESIDENT		
	Hunters	Hunter Days	Harvest	Hunters	Hunter Days	Harvest
MOOSE						
1979	70,770	529,400	10,110	7,220	54,600	1,580
1980	71,670	426,700	7,670	3,930	25,200	690
1981	66,850	405,500	7,630	3,110	19,400	460
1982	85,630	508,100	10,150	3,060	19,200	550
1983	69,780	537,400	8,640	2,080	13,300	410
DEER						
1979	78,440	415,800	13,200	1,560	8,700	*370
1980	80,280	443,200	9,150	780	4,400	110
1981	84,590	469,500	10,610	590	3,000	70
1982	91,750	500,300	11,870	560	2,900	90
1983	99,690	573,400	18,930	510	2,800	80
SMALL GAME **						
1976-77	242,310	3,388,000		8,530	62,300	
1978-79	226,693	2,975,400		8,724	55,100	
1979-80	214,550	2,829,600		10,520	65,700	
1980-81	220,020	2,781,300		11,170	76,100	
BEAR						
1981	8,170	58,300	1,370	12,230	81,400	3,700
1983	10,660	90,600	1,720	15,060	101,300	4,820

TOTALS			
Year	Hunters	Hunter Days	Harvest
MOOSE			
1979	77,990	584,000	11,690
1980	75,600	451,900	8,360
1981	69,960	429,900	8,090
1982	88,690	527,300	10,700
1983	71,860	550,700	9,050
DEER			
1979	80,000	424,500	*13,570
1980	81,060	447,600	9,260
1981	85,180	472,500	10,680
1982	92,310	503,200	11,960
1983	100,200	576,200	19,010
BEAR			
1981	20,400	139,700	5,070
1983	25,720	191,900	6,540

* Includes deer harvested on moose licences.

** Includes waterfowl.

EXPENDITURE BY HUNTERS - (Excluding Licence Fees)

Survey Year*	Estimates compiled from Hunters Surveyed by Mail			
	Hunt	Resident	Non-Resident	Total
1976-77	Moose	17,821,000	3,192,000	21,013,000
1979-80	Moose	22,833,000	3,803,000	26,636,000
1980-81	Moose	21,334,000	2,302,000	23,636,000
1981-82	Moose	23,576,000	1,929,000	25,505,000
1982-83	Moose	28,900,000	1,889,000	30,789,000
1983-84	Moose	28,856,000	1,597,000	30,453,000
1976-77	Deer	12,000,000	809,000	12,809,000
1979-80	Deer	14,892,000	548,000	15,440,000
1980-81	Deer	15,887,000	297,000	16,184,000
1981-82	Deer	18,163,000	229,000	18,392,000
1982-83	Deer	20,306,000	240,000	20,546,000
1983-84	Deer	24,038,000	230,000	24,268,000
1976-77	Small Game	53,561,000	3,252,000	56,813,000
1978-79	Small Game	47,634,000	3,278,431	50,912,431
1979-80	Small Game	47,162,000	4,413,000	51,575,000
1980-81	Small Game	50,000,000	4,563,000	54,563,000
1981-82	Bear	2,233,000	5,352,000	7,585,000
1983-84	Bear	3,724,000	8,012,000	11,736,000

HUNTING LICENCES SOLD

Year	DEER		MOOSE		BEAR	
	Resident	Non-Res.	Resident	Non-Res.	Resident	Non-Res.
1980-81	87,985	823	79,688	4,011	9,064	11,682
1981-82	91,695	630	73,851	3,214	13,736	13,341
1982-83	101,712	570	92,393	3,111	13,817	14,639
1983-84	112,318	535	75,650	2,148	15,464	16,109
1984-85	114,729	556	89,492	2,201	13,696	16,160

Year	SMALL GAME		TOTAL		Total
	Resident	Non-Res.	Resident	Non-Res.	
1980-81	383,091*	12,783	559,828	29,299	589,127
1981-82	337,736*	12,492	538,432	29,677	568,109
1982-83	338,279	11,202	546,201	29,522	575,723
1983-84	321,484	10,844	524,916	29,636	554,552
1984-85	306,682	11,332	524,599	30,249	554,848

* Includes summer hunting tag.

FUR HARVESTS

in years ending June 30

Average Pelt value, 1983 \$		Totals from Sealing Officers' Reports and Fur Dealers' Returns		
		1982	1983	1984
22.93	Beaver	143,352	141,648	119,080
32.44	Mink	30,372	21,575	16,183
53.44	Marten	60,705	58,522	64,545
58.80	Otter	9,506	10,189	7,576
160.68	Fisher	3,717	4,413	3,725
330.90	Lynx	2,913	2,888	1,707
102.50	Bobcat	30	47	26
5.47	Muskrat	435,741	617,459	450,634
15.56	Raccoon	150,932	126,636	72,844
.36	Squirrel	8,693	7,652	3,229
.99	Weasel	6,314	3,941	3,281
55.83	Coloured Fox	25,462	21,929	19,629
57.28	Arctic Fox	217	106	44
58.96	Timber Wolf	1,311	1,154	884
27.85	Coyote	2,784	2,347	2,718
123.92	Black Bear	230	120	132
171.66	Wolverine	22	26	12
3.08	Skunk	425	536	264
37.50	Grey Fox	2	5	11
450.00	Polar Bear	28	4	19
5.00	Badger	2	7	7
5.00	Opossum	3	53	89
Total Pelts		882,761	1,021,257	766,639
Total Value		16,660,204	14,343,082	13,173,998

Total royalties collected in 1983-84 \$559,482.00

TRAPPER LICENCES, 1981

Registered.....	3,123 @ \$5 = \$15,615
Resident.....	9,991 @ \$5 = \$49,955
Farmer, Indian Reservations.....	1,612 @ \$0 = ---
Registered Treaty.....	3,315 @ \$1 = \$ 3,315
Resident Treaty.....	25 @ \$5 = \$ 125
Totals.....	18,071 \$69,010
Raccoon Hunters.....	3,231 @ \$5 = \$16,155

HUNTER EDUCATION PROGRAM

Training began in 1957. It became mandatory for new hunters in 1960, and for new hunters under the age of 20 years in 1968. In 1983, it became mandatory for individuals born after December 31, 1954 to complete the training course before applying for the Hunting Licence Examination.

Year	ACTIVE INSTRUCTORS at Dec. 31	STUDENTS TRAINED Yearly	To Date	HUNTING ACCIDENTS		
				Non-Fatal	Fatal	Total
1979	1,110	35,080	525,878	46	5	51
1980	1,320	38,730	564,608	56	6	62
1981	1,406	39,625	604,233	33	3	36
1982	1,295	34,430	638,663	38	4	42
1983	1,150	30,216	668,879	20	3	23
1984	1,175	33,117	701,996	34	4	38

29 PROVINCIAL WILDLIFE AREAS

	Hectares
Aylmer Provincial Wildlife Area	150
Brighton Provincial Wildlife Area	388
Bruce Recreation Area	3,925
Camden Lake Wildlife Management Area	1,052
Copeland Forest	1,760
Darlington Provincial Park	111
Fingal Provincial Wildlife Area	293
Gananoque Provincial Wildlife Area	580
Holiday Beach Provincial Park	198
Holland Marsh Provincial Wildlife Area	573
Hoople Creek Provincial Wildlife Area	105
Hullett Provincial Wildlife Area	2,794
Long Point Provincial Wildlife Area	500
Luther Marsh Wildlife Area	5,666
Matchedash Bay Provincial Wildlife Area	225
Mountain Provincial Wildlife Area	1,457
Nonquon River Wildlife Area	1,133
Point Petre Provincial Wildlife Area	1,276
Presqu'ile Provincial Park	931
Puslinch Crown Resource Management Area	138
Rankin Wildlife Management Area	3,800
Rondeau Provincial Park	4,654
St. Edmunds Provincial Wildlife Area	6,799
Scugog Island	182
Sibbald Point Provincial Park	225
Stag Island Wildlife Management Area	17
Tiny Marsh Provincial Wildlife Area	931
Wye Marsh Provincial Wildlife Area	919

13 WILDLIFE EXTENSION
LANDOWNER AGREEMENT AREAS

	Hectare
Aylmer Ponds	43
Beverly Swamp	430
Binbrook	401
Calton Swamp	96
Christie	340
Crooks Hollow	17
Hawk Cliff	34
Lake St. Lawrence	6,070
Mud Lake	61
Orangeville Reservoir	316
Valens	223
Waterford Lakes	290
Willoughby Marsh	227

ENFORCEMENT STATISTICS 1984-85

District or Region	No. of Conservation Officers		No. of Deputy Conservation Officers	No. of Contacts by Conservation Officers	No. of F & W Warnings
	Field	Spvr.			
Algonquin	28	11	53	26,361	1,055
Central	29.5	14	76.3	54,333	3,191
Eastern	30	9	40	47,897	1,760
Southwestern	29.5	12	55.5	78,614	2,213
North Central	23	14	36	41,329	1,087
Northeastern	34.5	18	67	52,280	145
Northern	28	16	27	44,253	1,015
Northwestern	26.5	13	19	41,916	1,191
Total	229*	107*	373.8	386,983	11,657

* Total number of field and supervisor badge holders: 336

District or Region	No. of F & W Charges	No. of Other Charges	Total Amt. of F & W Charge Fines	Total Amt. of Other Charge Fines	Total Amt. of Fines
Algonquin	771	578	52,212	26,358	78,570
Central	1,095	1,624	92,240	110,402	202,642
Western	929	486	56,506	21,629	78,135
Southwestern	869	2,313	73,690	92,998	166,688
North Central	587	161	46,953	7,024	53,977
Northeastern	527	248	77,321	12,168	89,489
Northern	716	5	61,518	9,060	70,578
Northwestern	751	108	59,457	4,509	63,966
Total	6,245	5,523	519,897	284,148	804,045

Outdoor Recreation Group

PARKS AND RECREATIONAL AREAS
BRANCH

Room W-3329, Main Office Telephone (416) 965-5160

Branch Director.....	N. R. Richards.....	W-3329...5160
Policy Co-ordinator.....	F. L. Bishop.....	W-3328...2745
Secretary.....	Ms S. D. Hellman...	W-3328...5160
Operations Manager.....	E. E. Murphy.....	W-3342...1245
Operations Secretary.....	Mrs J. Miller.....	W-3340...1245
Operations Stenographer.....	Ms R. Coombs.....	W-3340...1245
Park Mgmt. Supervisor.....	B. van Staalduinen.	W-3343...1245
Parks Technician.....	B. Huis.....	W-3346...1245
Visitor Services Supervisor.....	G. Forma.....	W-3347...1245
Parks and Recreational Areas Technician.....	vacant.....	W-3345...1245
Research and Computer Applications Supervisor.....	D. Hallman.....	W-3344...1245
Park Mgmt. and Resource Technician.....	R. Speck.....	W-3352...1245
Mgmt. Information Specialist.....	D. Driscoll.....	W-3351...1245
Mgmt. Information Clerk.....	Ms D. Alexander....	W-3353...1245
Planning and Development Manager.....	K. G. McCleary.....	W-3326...2745
Planning and Development Secretary....	Mrs G. Shaw.....	W-3326...2745
Planning and Development Stenographer.	Mrs E. Mason.....	W-3310...2745
Planning and Development Clerk.....	Ms P. A. Naylor....	W-3330...2745
Planning and Development Typist.....	Mrs R. Watkins.....	W-3320...2745
Senior Landscape Architect.....	G. Pittenger.....	W-3330...2745
Landscape Architect.....	J. Huang.....	W-3330...2745
Supervisor, Environmental and Design Services.....	S. Cowan.....	W-3324...2745
Environmental and Design Services Engineer.....	J. Kolodziej.....	W-3322...2745
Draftsperson.....	Ms M. Lehoczky.....	W-3330...2745
Architectural Designer.....	H. Miles.....	W-3323...2745
Electrical Designer.....	J. Konya.....	W-3320...2745
Mechanical Designer.....	G. Szepielewicz....	W-3320...2745
Sanitary Drafter.....	Mrs B. Manowski....	W-3320...2745
Supervisor Planning.....	M. Garscadden.....	W-3301...2745
Special Projects Officer.....	R. Phillips.....	W-3327...2745
Earth Sciences Planner.....	R. J. Davidson.....	W-3301...2745
Life Sciences Planner.....	T. J. Beechey.....	W-3301...2745

PUBLIC USE OF PROVINCIAL PARKS

Year	Interior Campers	Campers	Average Days	Camper Nights	Total Visitors
1980	76,136	1,319,762	2.4	3,195,477	*5,210,712
1981	74,199	1,321,494	2.5	3,283,299	**5,948,528
1982	80,550	1,267,974	2.6	3,287,603	6,250,777
1983	85,131	***1,354,019	2.7	****3,726,427	+7,647,287
1984	-	1,461,904	2.6	3,764,006	7,337,892

VISITOR SERVICES PROGRAM ATTENDANCE

Organized Events/Activities

Year	Parks	Guided Tours	Personal Service Evening Programs	Film Programs	School Programs	Children's Programs	Special Events	Other
1983	67	39,137	107,360	97,317	26,695	13,505	77,438	52,873
1984	67	30,886	96,711	92,725	14,566	17,723	74,684	60,154

Indoor Facilities

Outdoor Self-Use Facilities

Indoor Displays Museums	Activity Centre	Other	Open Air Displays/ Exhibits	Inter- pretive Trails	Other Trails	Other
268,698	97,796	58,857	160,622	332,953	109,693	54,747
318,393	79,357	12,665	99,154	362,262	121,002	16,775

PUBLICATIONS

Priced	Other	Free
96,360	2,569	1,250,759
++ 7,587	5	1,160,615

TOTAL VISITOR SERVICES PROGRAM ATTENDANCE: +++1,497,691
1,397,057

GROWTH OF PROVINCIAL PARKS

Areas in hectares

Year	Camping Parks	Units	No.	Reserve Areas ha	No.	Provincial Parks ha
1980	97	20,723	101	949,726	131	4,257,266
			37	++++18,167		
1981	97	20,757	101	949,726	131	4,252,960
			37	18,167		
1982	97	20,393	97	944,337	133	4,258,632
			37	18,167		
1983	97	20,526	144	+++++790,132	138	5,476,369
1984	97	20,481	88	759,556	190	5,605,417

* Visitation calculated from permit sales only.

** Includes free day-use visitors.

*** Includes interior campers.

**** Includes interior camper nights.

+ Total visitation calculated from permit sales + free day-use visitation + interior visitation + includes traffic count visitation for Wasaga Beach Provincial Park.

++ The Friends of Algonquin Park assumed the responsibility for priced publications.

+++ Publications not included.

++++ Any area acquired by MNR for recreational or other purposes but not intended for designation as a provincial park.

+++++ Recommended provincial parks area.

190 PROVINCIAL PARKS IN REGULATION IN 1984

Region, District Provincial Park	Area in Hectares	Developed Campsites	Campers	Camper Nights
NORTHWESTERN REGION				
RED LAKE				
Opasquia	473,000	-	-	-
Pakwash	631	60	1,922	3,844
Woodland Caribou	450,000	-	-	-
KENORA				
Rushing River	190	192	20,349	48,838
Sioux Narrows	129	71	6,509	12,367
FORT FRANCES				
Caliper Lake	134	92	6,627	12,592
Lake of the Woods	12,900	100	3,647	9,846
DRYDEN				
Aaron	117	98	5,232	6,802
Blue Lake	354	188	19,407	38,813
SIOUX LOOKOUT				
Ujibway	2,630	50	3,248	5,196
IGNACE				
Sandbar Lake	3,157	75	6,481	10,369
Total, 11 Parks	943,242	926	73,422	148,667

Region, District Provincial Park	Area in Hectares	Developed Campsites	Campers	Camper Nights
NORTH CENTRAL REGION				
ATIKOKAN				
Quetico (Dawson Trail)	475,819	133	54,898	8,804
Quetico Interior	-	-		106,482
THUNDER BAY				
Arrow Lake	40	-	-	-
Inwood	33	85	4,666	4,666
Kakabeka Falls	420	166	25,672	35,941
Middle Falls	4	25	2,035	2,239
Sibley	24,435	200	11,818	25,999
Silver Falls	3,261	-	-	-
NIPIGON				
Lake Nipigon	1,458	85	2,474	3,711
Wabakimi	155,000	-	-	-
GERALDTON				
Klotz Lake	119	30	1,044	1,357
MacLeod	74	85	3,563	11,046
TERRACE BAY				
Neys	3,445	146	12,960	18,144
Rainbow Falls	575	225	13,101	17,031
Slate Islands	6,570	-	-	-
Total, 14 Parks	671,253	1,180	132,231	235,420

Region, District Provincial Park	Area in Hectares	Developed Campsites	Campers	Camper Nights
NORTHERN REGION				
HEARST				
Fushimi Lake	5,294	45	3,548	12,774
Nagagamisis	8,131	165	2,759	10,760
MOOSONEE				
Polar Bear	2,408,700	-	-	-
Tidewater	980	30	1,296	1,296
KAPUSKASING				
Rene Brunelle	2,964	122	4,126	11,965
COCHRANE				
Abitibi de Troyes	11,068	-	-	-
Greenwater	5,350	104	2,989	6,874
Kesagami	55,977	-	-	-
TIMMINS				
Kettle Lakes	1,261	165	7,715	25,458
KIRKLAND LAKE				
Esker Lakes	3,237	136	3,489	10,817
Kap-Kig-Iwan	292	64	3,091	5,255
CHAPLEAU				
Five Mile Lake	456	-	-	-
Ivanhoe Lake	1,589	149	4,709	12,244
Missinaibi Lake	44,061	36	2,734	10,935
The Shoals	10,644	46	2,355	5,181
Wakami Lake	8,806	65	3,881	16,687
Total, 16 Parks	2,568,810	1,127	42,692	130,246

Region, District Provincial Park	Area in Hectares	Developed Campsites	Campers	Camper Nights
NORTHEASTERN REGION				
WAWA				
Lake Superior	155,659	282	30,106	32,112
Lake Superior Interior	-	-	-	10,036
Michipicoten	289	-	-	-
Michipicoten Island	36,740	-	-	-
Obatanga	9,409	132	8,469	13,551
White Lake	1,726	187	25,945	41,512
SAULT STE. MARIE				
Batchawana	169	-	-	-
Pancake Bay	490	338	27,224	46,280
BLIND RIVER				
Aubrey Falls	4,860	-	-	-
Mississagi	2,883	100	3,623	10,507
ESPANOLA				
Chutes	108	130	17,064	23,890
SUDBURY				
Fairbank	105	160	7,701	23,104
Halfway Lake	4,730	215	15,168	47,022
Killarney	48,500	122	15,652	27,714
Killarney Interior	-	-	-	14,547
Mashkinonje	940	-	-	-
Wanapitei	2,700	-	-	-
Windy Lake	118	83	5,876	17,039
TEMAGAMI				
Finlayson Point	37	114	5,224	14,104
Lady Evelyn Smoothwater	72,400	-	-	-
NORTH BAY				
Antoine	12	30	9	32
Marten River	400	216	6,214	16,778
Restoule	662	278	6,423	28,263
Samuel de Champlain	2,349	216	7,451	17,883
Total, 22 Parks	345,286	2,603	182,149	384,374

Region, District Provincial Park	Area in Hectares	Developed Campsites	Campers	Camper Nights
ALGONQUIN REGION				
PARRY SOUND				
Grundy Lake	2,554	520	17,837	53,510
Killbear	1,756	883	42,240	198,527
Oastler Lake	32	145	10,187	30,561
Sturgeon Bay	14	82	4,581	13,743
BRACEBRIDGE				
Arrowhead	963	389	28,895	69,349
Mikisew	131	265	13,385	30,786
BANCROFT				
Lake St. Peter	25	62	4,136	8,271
Petroglyphs	1,555	-	-	-
Silent Lake	844	167	11,804	27,150
ALGONQUIN PARK				
Algonquin	765,345	1,375	144,038	230,381
Algonquin Interior	-	-	-	172,924
PEMBROKE				
Bonnechere	113	113	5,380	19,368
Carson Lake	13	43	2,198	3,516
Driftwood	265	77	4,593	8,268
Total, 13 Parks	773,610	4,121	289,274	866,354

Region, District Provincial Park	Area in Hectares	Developed Campsites	Campers	Campers Nights
EASTERN REGION				
CARLETON PLACE				
Fitzroy	185	249	18,754	37,507
Murphys Point	1,240	182	10,638	26,594
Rideau River	98	185	14,477	26,059
Silver Lake	43	148	11,131	23,375
CORNWALL				
Carillon	1,417	416	17,686	40,677
South Nation	5	-	-	-
BROCKVILLE				
Charleston Lake	902	243	26,022	59,851
TWEED				
Bon Echo	6,644	530	28,324	96,302
Sharbot Lake	69	185	9,516	25,694
NAPANEE				
Ferris	198	163	3,086	5,864
Frontenac - Interior	5,130	40	-	2,592
Lake on the Mountain	104	-	-	-
North Beach	89	-	-	-
Presqu'ile	937	393	33,120	92,737
Sandbanks	1,509	411	35,368	116,713
Total, 15 Parks	18,570	3,145	208,122	553,965

Region, District Provincial Park	Area in Hectares	Developed Campsites	Campers	Camper Nights
CENTRAL REGION				
LINDSAY				
Balsam Lake	449	483	28,560	79,969
Darlington	209	350	29,494	58,988
Emily	83	299	18,230	52,867
Mark S. Burnham	39	-	-	-
Quackenbush	40	-	-	-
Serpent Mounds	135	113	10,644	32,996
HURONIA				
Awenda	2,917	200	15,276	39,718
Bass Lake	39	92	13,075	30,072
Devil's Glen	6	45	3,539	5,308
Earl Rowe	312	555	24,343	60,858
Mara	45	106	7,484	23,200
McRae Point	138	205	14,379	43,136
Mono Cliffs	631	-	-	-
Six Mile Lake	94	192	17,467	43,668
Springwater	47	-	-	-
Wasaga Beach	1,545	-	-	-
MAPLE				
Credit Forks	261	-	-	-
Sibbald Point	226	648	40,215	112,602
CAMBRIDGE				
Bronte Creek	640	-	-	-
NIAGARA				
Rock Point	187	126	11,570	27,769
Short Hills	661	-	-	-
Total, 21 Parks	8,704	3,414	234,276	611,151

Region, District Provincial Park	Area in Hectares	Developed Campsites	Campers	Camper Nights
SOUTHWESTERN REGION				
SIMCOE				
Long Point	141	270	20,188	72,675
Selkirk	73	145	5,889	20,022
Turkey Point	311	365	10,842	27,105
AYLMER				
Iroquois Beach	227	232	13,675	45,127
John E. Pearce	68	-	-	-
Port Bruce	5	-	-	-
CHATHAM				
Holiday Beach	92	46	2,164	5,410
Pecche Island	153	-	-	-
Rondeau	3,254	226	18,847	56,542
Wheatley	241	210	15,884	38,121
WINGHAM				
Ipperwash	56	266	15,561	66,912
Pinery	2,533	1,080	101,487	274,015
Point Farms	308	199	17,238	44,819
OWEN SOUND				
Craigleith	66	172	18,428	38,699
Cyprus Lake	669	242	29,925	59,849
Fathom Five	9,976	-	-	-
Inverhuron	289	-	-	-
MacGregor Point	1,204	360	16,265	47,168
Pretty River Valley	808	-	-	-
Sauble Falls	20	152	13,345	37,365
Total, 20 Parks	20,494	3,965	299,738	833,829
WATERWAY PARKS				
Chapleau-Nemegosenda River	8,159	(Chapleau)	-	-
Makobe-Grays River	1,427	(Temagami/ Kirkland Lake)	-	-
Mattawa River	3,258	(North Bay)	-	-
Mississagi River	19,814	(Blind River, Espanola, Chapleau)	-	-
Winisk River	173,530	(Geraldton)	-	-
Total, 5 Parks	206,188	-	-	-

NATURE RESERVE PARKS

Agassiz Peatlands	2,315	(Fort Frances)	-	-
Albert Lake Mesa	130	(Nipigon)	-	-
Arrowhead Peninsula	815	(Thunder Bay)	-	-
Bayview Escarpment	439	(Owen Sound)	-	-
Bonheur River Kame	800	(Ignace)	-	-
Butler Lake	3,400	(Dryden)	-	-
Cabot Head	4,514	(Owen Sound)	-	-
Castle Creek	1,075	(Thunder Bay)	-	-
Cavern Lake	189	(Thunder Bay)	-	-
Craig's Pit	530	(Terrace Bay)	-	-
Cranberry Lake	2,800	(Fort Frances)	-	-
Dividing Lake	350	(Bracebridge)	-	-
Duncan Crevice Caves	161	(Owen Sound)	-	-
East Sister Island	53	(Chatham)	-	-
Edward Island	600	(Thunder Bay)	-	-
Fish Point	110	(Chatham)	-	-
Fraleigh Lake	825	(Thunder Bay)	-	-
Frederick House Lake	13	(Timmins)	-	-
Gibson River	168	(Huronias)	-	-
Gravel River	763	(Terrace Bay)	-	-
Hope Bay Forest	353	(Owen Sound)	-	-
Lighthouse Point	96	(Chatham)	-	-
Limestone Islands	450	(Parry Sound)	-	-
Lion's Head	526	(Owen Sound)	-	-
Little Cove	16	(Owen Sound)	-	-
Livingstone Point	1,800	(Nipigon)	-	-
Lola Lake	6,572	(Dryden)	-	-
Matawatchan	65	(Pembroke)	-	-
Matawin River	2,615	(Thunder Bay)	-	-
Mississagi Delta	2,395	(Blind River)	-	-
Montreal River	44	(Sault Ste. Marie)	-	-
Nagagami Lake	1,650	(Hearst)	-	-
North Driftwood River	3	(Cochrane)	-	-
O'Donnell Point	875	(Parry Sound)	-	-
Ojibway Prairie	65	(Chatham)	-	-
Ouimet Canyon	777	(Thunder Bay)	-	-
Peter's Woods	34	(Lindsay)	-	-
Porphyry Island	107	(Thunder Bay)	-	-
Potholes	247	(Wawa)	-	-
Puff Island	9	(Nipigon)	-	-
Sable Islands	1,996	(Fort Frances)	-	-
Schreiber Channel	13	(Terrace Bay)	-	-
Sedgman Lake	5,710	(Nipigon)	-	-
Sextant Rapids	4	(Cochrane)	-	-
Shallow River	2	(Cochrane)	-	-
Smokey Head/White Bluff	347	(Owen Sound)	-	-
Spruce Islands	970	(Fort Frances)	-	-
Thackeray	116	(Kirkland Lake)	-	-
Thompson Island	145	(Thunder Bay)	-	-
Timber Island	44	(Napanee)	-	-
Trillium Woods	10	(Aylmer)	-	-
Waubashene Beaches	34	(Huronias)	-	-
West Bay	1,120	(Nipigon)	-	-

Total, 53 Parks

49,260

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	Area in hectares	Developed Campsites	Campers	Camper Nights
Total, 190 Parks	5,605,417	20,481	1,461,904	3,764,006

* 88 RECOMMENDED PROVINCIAL PARKS - 1984

Region, District Recommended Provincial Parks	Area in Hectares
NORTHWESTERN REGION	
RED LAKE	
Pakwash Addition	2,070
Trout Lake	7,850
SIOUX LOOKOUT	
Albany River	65,360
Fawn River	4,700
Minnitaki Kames	4,340
Otoskwin - Attawapiskat River	3,400
Pipestone River North	53,250
Pipestone River South	25,720
Severn River	93,700
Windigo Point	380
FORT FRANCES	
Sandpoint Island	890
IGNACE	
Brightsands River	22,800
White Otter L. Turtle R.	21,400
DRYDEN	
Gold Rock	710
Winnange Lake	4,745
Total, 15 Parks	311,315

Region, District Recommended Provincial Parks	Area in Hectares
NORTH CENTRAL REGION	
NIPIGON	
Kabitotikwia River	1,965
Kama Hill	1
Pantagrue1 Creek	2,200
Shesheeb Bay	275
Windigo Bay	8,300
THUNDER BAY	
Brightsands River	5,036
Devon Road Mesa	60
Divide Ridge	235
Kaiashk	230
Kashabowie	2,055
Kopka River	11,000
La Verendrye River	4,390
Le Pate	250
Little Greenwater Lake	244
Middle Falls Extension	970
TERRACE BAY	
Prairie River Mouth	290
Red Sucker Point	360
Steel River	9,570
GERALDTON	
Albany River	62,723
Little Current River	9,830
Otoskwin-Attawapiskat River	69,542
White Otter Lake Turtle River	20,000
Total, 22 Parks	209,526

Region, District Recommended Provincial Parks	Area in Hectares
NORTHERN REGION	
KIRKLAND LAKE	
Pushkin Hills	5
Larder River	3,630
COCHRANE	
Coral Rapids	12
Little Abitibi River	20,000
Williams Island	8
CHAPLEAU	
Biscotasing	1,150
Missinaibi	99,000
Nemegosenda Lake	4
TIMMINS	
Dana - Jowsey	2,550
GOGAMA	
La Motte Lake	510
KAPUSKASING	
Adam Creek	50
Total, 11 Parks	126,919

Region, District Recommended Provincial Parks	Area in Hectares
NORTHEASTERN REGION	
BLIND RIVER Mississagi Extension	1,840
SUDBURY French River Sturgeon River	43,800 3,350
NORTH BAY Great Manitou Island Restoule Extension Samuel de Champlain Extension South Bay	80 470 200 1,525
ESPANOLA La Cloche Misery Bay	7,456 697
TEMAGAMI W. J. B. Greenwood	430
Total, 10 Parks	59,848

Region, District Recommended Provincial Parks	Area in Hectares
ALGONQUIN REGION	
PARRY SOUND	
Blackstone Harbour	12,080
Round Lake	2,585
BRACEBRIDGE	
J. Albert Bauer	163
Bigwind Lake	1,880
Chetwynd	520
Hardy Lake	1,590
Oxtongue River - Ragged Falls	650
BANCROFT	
Egan Chutes	320
Kawartha Highlands	1,880
Lowrie Lakes	230
Opeongo River	955
Upper Madawaska River	750
PEMBROKE	
Bell Bay	1,630
Bonnechere River	570
Centennial Lake	3,830
Foy Property	120
Lower Madawaska River	1,300
MacKenzie Lake Addition	1,530
Ottawa River	450
Westmeath	610
MINDEN	
MacRae Addition	6,150
Total, 21 Parks	39,793

District, Region Recommended Provincial Parks	Area in Hectares
EASTERN REGION	
BROCKVILLE James Auld	3,810
TWEED Stoco Fen	40
Total, 2 Parks	3,850
CENTRAL REGION	
LINDSAY Indian Point Wolf Island	860 220
HURONIA Boyne Valley Lavender Falls Scott's Falls	434 390 410
MAPLE Duclos Point	111
NIAGARA James N. Allan	280
Total, 7 Parks	2,705

Region, District Recommended Provincial Parks	Area in Hectares
SOUTHWESTERN REGION	
AYLMER Komoka	500
OWEN SOUND Black Creek Ira Lake	770 30
Johnston Harbour/Pine Tree Point	4,300
Total, 4 Parks	5,600
TOTAL, 88 Recommended Provincial Parks	759,556

* Recommended parks will be phased into the Provincial Parks system in the near future.

Outdoor Recreation Group

FISHERIES BRANCH

Room W-2347, Main Office Telephone (416) 965-7885

Branch Director.....	A. S. Holder.....	W-2347.....	5947
Secretary.....	J. Mills.....	W-2348.....	7885
Policy Development Co-ordinator..	J. T. Allin.....	W-2312.....	7887
Client Services Section.....	C. A. Haxell, Mgr.....	W-2349.....	7885
Secretary.....	F. Heffernan.....	W-2348.....	7885
Information Co-ordinator.....	A. A. Wainio.....	W-2353.....	7885
Data Systems Information			
Biologist.....	W. G. Simpson.....	W-2446.....	7885
Economist.....	N. Bedi.....	W-2344.....	7885
Commercial Development Co-ord..	J. C. Tilt.....	W-2455.....	7885
Fish Culture Section.....	J. M. Byrne, Spvr.....	W-2448.....	7886
Secretary.....	L. Lavallee.....	W-2448.....	7886
Production Biologist.....	J. D. Hynes.....	W-2449.....	7886
Fish Health Biologist.....	K. K. Loftus.....	W-2453.....	7886
Fish Nutrition Specialist.....	C. Y. Cho..... (519)	824-4120	2212
Fish Assessment Biologist.....	A. J. Sippel.....	W-2450.....	7886
Fish Culture Operation Co-ord..	C. C. Mack.....	W-2447.....	7886
Information Systems			
Specialist.....	D. N. Farquhar.....	W-2454.....	7886
Engineer.....	H. K. Yoshida.....	W-2452.....	7886
Environmental Dynamics Section...	D. P. Dodge, Spvr.....	W-2312.....	7887
Secretary.....	B. Fernandez.....	W-2312.....	7887
Habitat Enhancement Biologist..	R. M. Biette.....	W-2312.....	7887
Aquatic Habitat Inventory			
Biologist.....	G. A. Goodchild.....	W-2312.....	7887
Inventory Data Systems &			
Lab Specialist.....	G. E. Gale.....	W-2312.....	7887
Aquatic Habitat Acidification			
Specialist.....	G. L. Beggs.....	W-2312.....	7887

Box 50, Maple, Ontario L0J 1E0 Telephone (416) 832-2761

Fisheries Research Section.....	J. A MacLean, Supvr.....	Ext. 251
Secretary.....	M. Hirst.....	251
Age/Growth Studies &		
Environmental Stress.....	J. Casselman.....	251
Brook Trout Studies.....	J. H. Fraser.....	251
Community Dynamics.....	D. O. Evans.....	251
Stock Assessment &		
Genetics.....	P. Ihssen.....	251
Systems Ecology.....	B. Shuter.....	251

RESEARCH STATIONS

Fisheries Research Section.....	R. A. Ryder.....	(807) 683-6232
Box 5000, Thunder Bay, Ont	P. J. Colby.....	475-1635
P7C 5G6		
Sault Ste. Marie Research Stn....	W. H. Kwain.....	(705) 942-1411
875 Queen St. E.,		
Sault Ste. Marie, Ont. P6A 2B3		
South Baymouth Fisheries Lab.....	B. Henderson.....	(705) 859-3137
R.R. 1, Tehkummah, Ont. POP 2C0	J. A. Reckahn.....	3137
Wheatley Fisheries Research Stn..	S. J. Nepszy.....	(519) 825-4171
R.R. 2, Wheatley, Ont. NOP 2P0	J. H. Leach.....	4171
Glenora Fisheries Research Stn...	W. J. Christie.....	(613) 476-2400
R.R. 4, Picton, Ont. KOK 2T0	D. A. Hurley.....	2400
Harkness Lab (Algonquin Park)....	.....	(705) 637-2103
Box 110, Whitney, Ont. KOJ 2M0		

FISH PLANTINGS

Numbers in 000s of Fish (F) and Eggs (E)
Stocked from Ontario Fish Culture Stations

Species	E/F	1980	1981	1982	1983	1984
Coho Salmon	F	418	224	144	181	216
Chinook Salmon	F	18	12	270	222	685
Rainbow Trout	F	1,347	395	369	318	266
Brown Trout	F	-	-	71	134	165
Brook Trout	E	-	860	-	302	-
	F	1,260	1,459	824	1,757	1,127
Lake Trout	E	5	-	-	25	80
	F	1,928	2,636	2,517	1,874	2,959
Lake Trout Backcross	F	-	-	-	856	1,071
Splake	E	76	-	-	180	-
	F	798	684	927	104	205
Aurora Trout	F	17	30	-	21	10
Whitefish	F	-	-	13	15	15
Muskellunge	F	1,120	791	1,146	902	1,290
Smallmouth Bass	F	65	160	-	-	136
Walleye	E	-	-	-	-	300
	F	472	29	31	156	354
Total		7,523	7,250	6,312	7,047	8,879

COMMERCIAL FISHING LICENCES

Year	Food-Fish Harvesting	Bait-Fish Harvesting	Bait-Fish Dealers	Bait-Fish Preservers	Total
1980	1,029	1,728	1,858	124	4,739
1981	1,047	1,712	1,861	142	4,762
1982	1,068	1,694	1,847	134	4,743
1983	961	1,782	1,961	148	4,852
1984	931	1,802	1,965	141	4,839

ANGLING LICENCES

Year	Number Sold to Non-Residents
1980	628,988
1981	673,334
1982	661,934
1983	627,508
1984	550,992

FISH STOCKING from Ontario Provincial Fish Culture Stations

For the fiscal year ending March 31, 1984

(E-Eggs)

Station	Species	Quantity	Weight (kg)
Codrington	Brown Trout	165,047	5,991
Chatsworth	Lake Trout	168,600	5,224
	Lake Trout Backcross	684,416	31,995
	Splake	1,131	590
	Whitefish	15,396	430
Deer Lake	Brook Trout	27,100	126
	Lake Trout	165,188	1,925
	Muskellunge	1,290,435	138
Dorion	Brook Trout	357,524	5,131
	Lake Trout	948,360	21,964
Hill's Lake	Brook Trout	77,668	1,629
	Lake Trout	177,515	4,443
Normandale	Rainbow Trout	166,551	1,640
North Bay	Brook Trout	120,908	1,822
	Lake Trout	96,416	2,686
	Splake	175,245	3,201
	Aurora Trout	9,636	2
Pembroke	Brook Trout	146,000	1,936
	Lake Trout	165,000	2,632
Ringwood	Coho Salmon	216,115	5,333
	Chinook Salmon	684,570	1,307
Sandfield	Brook Trout	70,200	458
	Lake Trout	59,388	916
		80,250 E	-
	Lake Trout Backcross	314,070	7,781
	Splake	240	255
	Smallmouth Bass	135,926	467
	Walleye	44,605	57
Skeleton Lake	Lake Trout Backcross	72,540	1,472
	Brook Trout	103,050	964
	Lake Trout	95,300	955
	Walleye	82,275	73
Tarentorus	Rainbow Trout	59,511	2,145
	Brook Trout	149,904	2,003
	Lake Trout	547,289	7,714
White Lake	Rainbow Trout	39,600	1,051
	Brook Trout	47,150	759
	Lake Trout	384,980	4,529
	Splake	28,180	700
	Walleye	134,058	210
		300,000 E	
Westport	Walleye	93,543	98
	Brook Trout	27,280	341
	Lake Trout	150,567	2,336

EMPLOYMENT AND INVESTMENT IN COMMERCIAL FISHERY - 1984

Classification		Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron
Men employed	No.	285	714	22	74
FISHING BOATS					
12.2 m and over	No.	3	158	-	15
	tonnes	40	4,721	-	238
	Value \$	85,000	23,866,011	-	1,478,944
6.1 m to 11.9 m	No.	77	28	8	2
	Value \$	972,800	708,165	72,000	75,000
Under 6.1 m	No.	189	56	11	5
	Value \$	371,620	89,795	20,050	5,194
FISHING GEAR					
Gill Nets	Metres	1,104,800	9,987,193	-	432,200
	Value \$	775,587	7,168,985	-	514,767
Pound Nets	No.	-	43	180	-
	Value \$	-	80,300	156,000	-
Trap Nets	No.	112	284	140	118
	Value \$	84,600	1,216,000	31,500	230,941
Hoop Nets	No.	1,019	167	30	3
	Value \$	585,350	73,200	15,000	3,000
Seine Nets	Metres	2,396	4,033	4,379	-
	Value \$	19,600	55,000	17,300	-
Night Lines	No.	43,564	20,820	7,400	-
	Value \$	32,151	11,800	6,200	-
Dip Nets	No.	10	13	-	-
	Value \$	282	470	-	-
Trawl Nets	No.	-	336	-	-
	Value \$	-	776,085	-	-
Trammel Nets	Metres	-	20	-	-
	Value \$	-	13,800	-	-
SHORE INSTALLATIONS					
Freezers & Icehouses	No.	33	30	7	10
	Value \$	183,075	1,117,700	49,400	133,500
Piers & Wharves	No.	32	42	8	5
	Value \$	178,510	123,544	31,200	25,700
Net Sheds	No.	93	125	13	10
	Value \$	414,054	2,281,750	181,000	291,200
Miscellaneous	Value \$	637,850	56,500	-	-
NEW CAPITAL INVESTMENT					
Engines	Value \$	78,315	207,912	2,300	32,200
Hulls	Value \$	85,420	1,098,524	-	81,145
Fishing Gear	Value \$	163,016	1,293,363	2,580	47,641
Wheelhouse Equip	Value \$	10,850	186,419	-	22,889
Other Equipment	Value \$	6,170	-	-	-
TOTAL NEW CAPITAL INVESTMENT		343,771	2,786,218	4,880	183,875
TOTAL INVESTMENT		4,110,185	40,374,473	584,530	2,942,121

EMPLOYMENT AND INVESTMENT IN COMMERCIAL FISHERY - 1983

Classification	Georgian Bay	North Channel	Lake Superior	Northern Inland Waters	Southern Inland Waters	Total
Men Employed	38	32	21	382	20	1,588
FISHING BOATS						
12.2 m & over No.	9	6	9	8	-	208
tonnes	127	60	103	55	-	5,344
Value\$	477,684	290,000	500,000	321,000	-	27,018,639
6.1m to 11.9m No.	14	4	4	43	3	183
Value\$	157,700	13,500	33,100	315,166	12,000	2,359,431
Under 6.1m No.	22	10	11	209	12	525
Value\$	56,900	9,450	28,808	366,326	17,100	965,243
FISHING GEAR						
Gill Nets						
Meters	316,530	195,000	117,000	509,810	13,000	12,675,533
Value\$	294,600	85,930	92,900	332,922	10,850	9,276,541
Pound Nets						
No.	3	-	2	24	-	252
Value\$	4,500	-	6,000	192	-	246,992
Trap Nets						
No.	4	4	1	79	4	746
Value\$	5,000	2,000	2,000	103,510	4,600	1,680,151
Hoop Nets						
No.	1	7	1	53	128	1,409
Value\$	800	1,000	1,500	15,900	35,950	731,700
Seine Nets						
Metres	-	-	-	-	201	11,009
Value\$	-	-	-	-	1,100	93,000
Night Lines						
No.	-	-	-	-	1,600	73,384
Value\$	-	-	-	-	505	50,656
Dip Nets						
No.	-	-	4	22	-	49
Value\$	-	-	80	1,045	-	1,877
Trawl Nets						
No.	-	-	5	-	-	341
Value\$	-	-	10,000	-	-	786,085
Trammel Nets						
Metres	-	-	-	-	67	87
Value\$	-	-	-	-	600	14,400

	Georgian Bay	North Channel	Lake Superior	Northern Inland Waters	Southern Inland Waters	Total
SHORE INSTALLATIONS						
Freezers & No.	15	8	5	109	13	230
Icehouses Value \$	67,000	74,500	33,500	561,719	3,563	2,223,957
Piers & No.	7	4	9	80	4	191
Wharves Value \$	42,400	4,883	21,300	169,570	2,300	599,407
Net Sheds No.	10	10	8	69	10	348
Misc. Value \$	87,600	56,576	24,000	149,989	18,060	3,504,229
Misc. Value\$	-	-	-	80,000	-	149,435
NEW CAPITAL INVESTMENT						
Engines Value \$	2,826	400	6,658	58,893	3,850	393,354
Hulls Value \$	-	-	6,650	26,945	-	1,298,684
Fishing Gear Value \$	26,983	32,323	18,231	82,302	3,373	1,669,812
Wheelhouse Equip. Value \$	10,136	4,881	6,500	12,913	-	254,588
Other Equipment Value \$	-	-	650	-	-	6,820
TOTAL NEW CAPITAL INVESTMENTS	39,945	37,604	38,689	181,053	7,223	1,231,371
TOTAL INVESTMENT						
Georgian Bay	1,234,129					
North Channel	575,443					
Lake Superior	791,877					
Northern Inland Waters	2,598,392					
Southern Inland Waters	113,851					
TOTAL	53,325,001					

COMMERCIAL FISH INDUSTRY

Commercial Fish Harvest - January to December 1984

shown in kilograms and dollar value

Species	Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron	Georgian Bay
Bowfin	55	11,008	6,243	-	-
Bullhead	187,817	22,173	521	15	162
Burbot (ling)	-	494	-	11,967	3,592
Carp	36,924	40,861	27,925	12,446	1,218
Catfish	9,151	27,623	27,006	28,286	671
Chub (Deepwater Cisco)	-	-	-	454,456	179,055
Crappie	13,457	9,375	128	-	-
Eel	112,534	540	7	-	-
Lake Herring	1,987	-	-	1,861	11,449
Lake Trout	861	327	-	26,213	4
Lake Whitefish	32,984	5,372	-	895,579	59,171
Freshwater Drum	826	231,899	2,409	25,383	302
Northern Pike	1,228	6,487	1,221	154	1,437
Pacific Salmon	-	-	-	2,193	28
Rock Bass	8,208	12,051	1,102	1,739	453
Round Whitefish	-	4	-	5,511	8,387
Sauger	-	-	-	5	96
Shad	-	4,253	-	805	-
Smelt	15,028	7,468,616	-	301	788
Splake	-	-	-	-	8,095
Sturgeon	63	35	32	1,295	-
Sucker	30,785	7,842	6,125	24,921	12,188
Sunfish	60,330	30,823	6	2	-
White Bass	8,218	1,990,293	2,898	7,991	-
White Perch	30,152	320,303	198	154	-
Yellow Perch	381,009	4,092,461	2,123	211,563	31,971
Yellow Pickerel	556	1,864,574	69	128,669	4,909
Animal Food	28,926	296,608	-	58,662	465
Total Landings (kg)	961,099	16,444,022	78,013	1,900,171	324,441
Total Value (\$)	1,698,354	25,805,072	53,627	3,932,321	493,143

COMMERCIAL FISH INDUSTRY

Commercial Fish Harvest - January to December 1984

shown in kilograms and dollar value

Species	North Channel	Lake Superior	Northern Inland Waters	Southern Inland Waters	Total Landings (kg)	Total Value (\$)
Bowfin	-	-	-	-	17,306	6,566
Bullhead	-	-	53	3,757	214,498	197,171
Burbot (ling)	1,064	-	21,407	431	38,955	3,931
Carp	593	-	-	11,538	131,505	30,015
Catfish	140	-	18	3,606	96,501	98,555
Chub (Deepwater Cisco)	16	63,429	48,412	-	745,368	1,380,800
Crappie	4	-	7,163	1,141	31,268	80,751
Eel	-	-	-	800	113,881	225,724
Lake Herring	2,459	896,716	11	-	914,483	445,492
Lake Trout	437	145,577	19,159	-	192,578	386,307
Lake Whitefish	174,432	179,148	546,446	-	1,893,132	2,885,921
Freshwater Drum	-	-	-	-	260,819	50,440
Northern Pike	7,986	-	92,910	-	111,423	86,472
Pacific Salmon	315	-	-	-	2,536	4,998
Rock Bass	499	-	3	835	24,890	26,612
Round Whitefish	1,978	18,405	22	-	34,307	18,498
Sauger	-	-	14,799	-	14,900	27,075
Shad	-	-	-	-	5,058	318
Smelt	220	-	-	-	7,484,953	1,599,925
Splake	1,139	-	-	-	9,234	18,433
Sturgeon	-	-	6,515	-	7,940	37,316
Sucker	18,231	70,607	101,419	459	272,577	52,194
Sunfish	131	-	-	13,420	104,712	109,687
White Bass	-	-	-	93	2,009,493	1,878,271
White Perch	-	-	-	-	350,807	338,374
Yellow Perch	54,220	37,694	644	2,501	4,814,186	18,306,748
Yellow Pickerel	10,574	621	270,364	-	2,280,336	6,796,911
Animal Food	59,063	23,037	16,881	5,591	489,233	12,100

TOTAL LANDINGS (kg)

TOTAL VALUE (\$)

North Channel	333,501
Lake Superior	1,435,234
Northern Inland Waters	1,146,226
Southern Inland Waters	44,172
Total Landings	22,666,879
Total Value	-

609,151.00
1,124,474.78
1,336,872.84
52,591.26
-
35,105,606.46

ONTARIO COMMERCIAL FISH HARVEST

by species in 000s kg and \$000s

Species	1980	1981	1982	1983	1984	1984 Value
Bowfin	9	20	13	45	18	7
Bullhead	241	234	204	221	215	197
Burbot (ling)	108	182	81	72	39	4
Carp	121	208	158	181	132	30
Catfish	85	117	96	111	97	99
Chub (Deepwater Cisco)	446	394	308	520	746	1,381
Pacific Salmon	17	38	27	69	3	5
Eel	168	112	32	69	114	226
Freshwater Drum	179	257	230	188	261	51
Goldeye	-	-	-	-	-	-
Lake Herring (Cisco)	1,464	1,456	1,122	589	915	446
Lake Trout	278	227	258	262	193	387
Lake Whitefish	1,681	1,748	1,765	2,226	1,894	2,886
Northern Pike	267	296	321	278	112	87
Rock Bass & Crappie	75	64	58	78	57	108
Round Whitefish	75	57	35	27	35	19
Sauger	17	20	28	20	15	28
Smelt	11,336	13,944	19,611	13,316	7,585	1,600
Splake	39	57	40	29	9	19
Sturgeon	21	20	20	22	8	38
Sucker (Mullet)	563	606	626	484	273	52
Sunfish	118	126	130	111	105	110
White Bass	904	896	1,579	2,076	2,010	1,878
White Perch	57	47	39	74	351	339
Yellow Perch	6,236	4,784	4,962	3,473	4,814	18,307
Yellow Pickerel	1,343	1,476	1,368	1,841	2,281	6,797
Animal Food	637	772	688	828	490	12
Total Landings	26,485	28,158	33,799	27,210	22,672	
Total Landed Value	\$23,644	\$31,767	\$36,788	\$27,837		\$35,113

ONTARIO COMMERCIAL FISH HARVEST

by waters in 000s kg. and \$000s

Year	Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron	Georgian Bay
1980	891	19,490	37	1,083	361
1981	1,163	20,334	93	1,461	346
1982	939	26,989	153	1,324	269
1983	1,025	20,363	122	2,126	270
1984	961	16,444	78	1,900	325

Year	North Channel	Lake Superior	Northern Inland Waters	Southern Inland Waters	Total	Total \$
1980	158	2,151	2,080	234	26,485	23,644
1981	314	2,060	2,154	233	28,158	31,767
1982	322	1,515	2,091	197	33,799	36,788
1983	381	1,079	1,691	153	27,210	27,837
1984	334	1,435	1,146	44	22,667	35,106

LAKE ONTARIO COMMERCIAL FISH HARVEST

by species in 000s kg. and \$000s

Year	Bullhead and Catfish	Carp	Eel	Lake Herring	Smelt	Sunfish
1980	176	-	164	5	22	72
1981	154	73	109	2	34	60
1982	120	13	29	2	37	69
1983	141	43	67	3	44	58
1984	197	37	113	2	15	61

Year	White Perch	Yellow Perch	Other Species	Total	Total \$
1980	55	265	132	891	1,147
1981	48	563	120	1,163	1,930
1982	34	539	96	939	1,905
1983	29	580	60	1,025	1,880
1984	30	381	125	961	1,698

LAKE ERIE COMMERCIAL FISH HARVEST

by species in 000s kg. and \$000s

Year	Bullhead and Catfish	Carp	Freshwater Drum	Smelt	White Bass
1980	56	10	151	11,296	888
1981	76	15	212	13,790	881
1982	54	19	190	19,556	1,556
1983	70	89	145	13,270	2,060
1984	50	41	232	7,469	1,991

Year	Yellow Perch	Yellow Pickerel	Other Species	Total	Total \$
1980	5,674	800	615	19,490	14,024
1981	3,795	956	609	20,334	20,261
1982	4,134	909	571	26,989	26,183
1983	2,539	1,400	790	20,363	17,748
1984	4,093	1,865	703	16,444	25,805

LAKE ST. CLAIR COMMERCIAL FISH HARVEST

by species in 000s kg. and \$000s

Year	Bullhead and Catfish	Carp	Freshwater Drum	Northern Pike	Rock Bass & Crappie
1980	7	14	5	1	1
1981	22	34	11	1	1
1982	30	74	17	1	2
1983	26	19	16	2	3
1984	28	28	3	2	2

Year	Sucker	White Bass	Yellow Perch	Other Species	Total	Total \$
1980	5	2	-	2	37	23
1981	11	5	1	7	93	53
1982	15	8	1	5	153	77
1983	26	6	5	9	122	76
1984	6	3	2	4	78	78

LAKE HURON COMMERCIAL FISH HARVEST

by species in 000s kg. and \$000s

Year	Carp	Chub	Lake Herring	Lake Whitefish	Round Whitefish
1980	15	101	3	524	6
1981	14	219	3	594	4
1982	13	194	4	702	4
1983	12	252	11	1,300	4
1984	13	455	2	896	6

Year	Sucker (Mullet)	Yellow Perch	Yellow Pickerel	Other Species	Total	Total \$
1980	18	201	124	91	1,083	2,369
1981	49	246	124	208	1,461	3,255
1982	63	135	117	92	1,324	2,833
1983	30	227	129	161	2,126	4,231
1984	25	212	129	162	1,900	3,933

GEORGIAN BAY COMMERCIAL FISH HARVEST

by species 000s kg. and \$000s

Year	Carp	Chub	Lake Herring	Lake Whitefish	Round Whitefish
1980	7	77	20	88	15
1981	2	57	12	105	8
1982	2	57	12	77	9
1983	1	124	10	37	6
1984	2	179	12	60	9

Year	Sucker (Mullet)	Yellow Perch	Yellow Pickerel	Other Species	Total	Total \$
1980	41	36	11	66	361	505
1981	28	49	11	74	346	669
1982	20	39	9	44	269	504
1983	22	29	7	34	270	478
1984	12	32	5	14	325	493

NORTH CHANNEL COMMERCIAL FISH HARVEST

by species in 000s kg. and \$000s

Year	Smelt	Lake Whitefish	Northern Pike	Round Whitefish	Sturgeon
1980	-	73	6	1	4
1981	-	120	13	2	3
1982	-	171	9	1	2
1983	-	200	7	3	2
1984	-	175	8	2	-

Year	Sucker (Mullet)	Yellow Perch	Yellow Pickerel	Other Species	Total	Total \$
1980	34	7	13	20	158	279
1981	26	52	20	78	314	526
1982	27	39	20	53	322	618
1983	17	38	10	104	381	554
1984	19	55	11	64	334	609

LAKE SUPERIOR COMMERCIAL FISH HARVEST

by species in 000s kg. and \$000s

Year	Chub	Lake Herring	Lake Trout	Lake Whitefish	Smelt
1980	240	1,282	212	225	17
1981	91	1,327	176	173	42
1982	18	901	189	164	17
1983	31	563	185	133	-
1984	64	897	146	179	-

Year	Sucker (Mullet)	Yellow Perch	Yellow Pickerel	Other Species	Total	Total \$
1980	77	38	-	60	2,151	2,606
1981	110	61	-	80	2,060	2,246
1982	124	61	1	40	1,515	2,063
1983	105	40	-	22	1,079	1,297
1984	71	38	-	40	1,436	1,124

NORTHERN INLAND WATERS COMMERCIAL FISH HARVEST

by species in 000s kg. and \$000s

Year	Burbot	Chub	Lake Herring	Lake Trout	Lake Whitefish
1980	91	27	154	32	765
1981	169	26	106	18	745
1982	70	40	200	48	629
1983	58	112	-	18	539
1984	39	48	-	19	547

Year	Northern Pike	Sucker (Mullet)	Yellow Pickerel	Other Species	Total	Total \$
1980	226	337	337	111	2,080	2,533
1981	246	358	363	123	2,154	2,641
1982	275	341	311	177	2,091	2,426
1983	248	259	292	165	1,691	1,421
1984	93	102	271	46	1,147	1,337

SOUTHERN INLAND WATERS COMMERCIAL FISH HARVEST

by species in 000s kg. and \$000s

Year	Bullhead & Catfish	Carp	Lake Whitefish	Rock Bass & Crappie	Sucker (Mullet)
1980	57	71	-	4	15
1981	63	69	-	8	4
1982	63	34	-	11	19
1983	54	16	-	8	1
1984	8	12	-	3	1

Year	Sunfish	White Perch	Yellow Perch	Other Species	Total	Total \$
1980	29	2	11	45	234	157
1981	34	3	15	37	233	186
1982	34	1	10	25	197	181
1983	26	5	12	31	153	152
1984	14	-	3	3	44	53

EMPLOYMENT AND INVESTMENT IN ONTARIO COMMERCIAL FISHERY

Year	Employees	40' & Over	Under 40'	Gill M 000s	Pound Nets	Trap Nets	Hoop Nets
1980	1964	213	837	12,068	172	556	1630
1981	2043	237	885	12,616	160	689	1430
1982	2106	238	980	12,735	269	732	1504
1983	1981	251	770	12,579	207	776	1648
1984	1588	208	708	12,676	252	746	1409

Year	Seine M 00s	Freezers & Ice Houses	Wharves and Piers	Net Sheds	New Invest. \$000s	Total Value \$000s
1980	75	317	250	457	3,714	41,481
1981	77	291	275	476	5,447	54,676
1982	78	322	277	482	3,655	57,345
1983	89	277	243	444	3,327	58,775
1984	110	230	191	348	12,314	533,250

LANDS AND WATERS GROUP

Room W-6626, Main Office Telephone (416) 965-6045

Executive Co-ordinator.....	H. A. Clarke.....	W-6626.....6046
Administrative Assistant.....	Ms. H. Cobden.....	W-6623.....1075
Res. Economist.....	Dr. P. L. M. Warwick....	W-6625.....5067

LAND MANAGEMENT BRANCH

Room W-6643, Main Office Telephone (416) 965-1316

Branch Director.....	S. E. Yundt.....	W-6643.....1498
Secretary.....	Mrs. B. Bourne.....	W-6643.....1316
Admin. Asst.....	Mrs. B. Luksis.....	W-6643.....1316
Training Co-ordinator.....	C. Turnpenney.....	W-6644.....1607
Public Lands Section.....	J. Morton, Spvr.....	W-6603.....2741
Public Lands Management.....	L. Fleguel.....	W-6621.....4507
Water Power.....	W. P. Small.....	W-6621.....2743
Land Appraisals and Property Management Officer.....	J. Cameron, (acting)....	W-6629.....2742
Land Management Planning.....	N. C. Gordon.....	W-6604.....2742
Land Acquisition Officer.....	A. D'Angelo.....	W-6629.....2743
Mining Lands Section.....	J. C. Smith, Spvr.....	W-6602.....1380
Mining Lands Administrator.....	T. Soobrian.....	W-6610.....4888
Mining Lands Administrator.....	R. Pichette.....	W-6610.....4888
Titles Section.....	J. Hogan, Spvr.(acting).	W-6645.....1319
Document Officer.....	C. D. Egerton.....	W-6645.....1319
Acreage Tax Administrator.....	Mrs. D. Holland.....	W-6645.....1319
Records Officer.....	R. E. Dixon.....	W-6645.....1319
Land Records Manager.....	V. Prasad.....	W-6645.....1319
Resource Access Section.....	P. Brook, Spvr.....	W-6646.....5735

PUBLIC LANDS in years ending March 31

Year	Patents		Leases		Licences of Occupation	
	No.	ha	No.	ha	No.	ha
1980	578	1,216	201	198	135	3,407
1981	890	1,093	162	276	100	3,066
1982	690	2,385	211	448	113	845
1983	1,093	1,517	114	208	96	472
1984	1,324	8,674	110	365	90	106
1985	1,591	1,788	100	189	101	92

LANDS ACQUIRED BY CROWN in years ending March 31

Year	Provincial Tax Forfeitures	Cancellation of Sales	Purchased or Otherwise Acquired	Forfeitures
	ha	ha	ha	ha
1980	0.4	-	2,480	15,783
1981	1.20	0.16	703	3,600
1982	492	-	722	6,275
1983	661	-	1,402	4,047
1984	482	1	520	2,832
1985	757	-	711	4,047

USE OF ACQUIRED LANDS areas in hectares, years ending March 31

Year	Provincial Parks ha	Lands General ha	Sport Fisheries ha	Wildlife Mgmt. ha	Timber Mgmt. ha	Total ha	Interim Property Mgmt.
1975	4,815	87	0.80	384	-	5,286	-
1976	2,143	12	6	163	-	2,325	-
1977	630	140	81	248	2	1,101	35,424
1978	548	4.04	-	111	4,332	4,995	36,095
1979	2,028	79	-	-	3	2,110	34,715
1980	2,350	109	16	-	5	2,480	35,008
1981	549	-	51	3	100	703	34,692
1982	588	32	47	24	31	722	26,633
1983	261	56	146	213	726	1,402	25,113
1984	420	2	-	-	98	520	20,280
1985	504	79	4	101	23	711	13,687

MINING LANDS in years ending March 31

Year	Patents		Renewals		Leases New	
	No.	ha	No.	ha	No.	ha
1980	-	-	185	5,327	94	11,185
1981	-	-	141	2,302	60	7,704
1982	-	-	77	1,226	68	6,446
1983	-	-	85	1,937	80	9,230
1984	-	-	71	779	287	10,999
1985	-	-	164	2,992	74	9,103

Year	Surface Rights		Licences of Occupation		Quit Claim Deeds and Regrants	
	No.	ha	No.	ha	No.	ha
1980	2	90	1	16	297	7,538
1981	-	-	5	147,191	38	624
1982	-	-	3	366,705	49	1,157
1983	-	-	1	864	45	1,196
1984	1	372	3	3,012	77	952
1985	-	-	12	241,508	40	1,240

PROSPECTING ACTIVITIES

in years ending March 31

Year	Mining Claims		In Good Standing	Assessment Work (Days)	Quarry Permits Issued	Prospector's Licences	
	Recorded	Cancelled				Issued	Renewed
1980	16,875	10,952	36,092	437,619	1,301	1,347	1,854
1981	36,535	11,279	72,809	972,469	1,188	2,130	2,660
1982	26,075	17,709	76,125	1,565,197	1,520	1,871	2,796
1983	55,942	24,395	113,167	1,516,226	1,449	2,040	3,190
1984	57,774	20,958	144,812	3,461,208	1,567	2,400	3,343
1985	35,825	45,156	134,913	3,094,693	1,391	1,958	3,344

1984/85 MNR ROADS PROGRAM

REGION	kms Con./Recon.	Bridges Con./Recon	Expenditures (\$000s)	kms Maintained	Expenditure (\$000s)
NORTHERN ONTARIO					
Northwestern	12.1	-	\$ 536.3	553.6	\$397.3
North Central	34.5	3	1,086.4	1,525.5	450.5
Northern	55.8	-	768.2	1,076.8	569.3
Northeastern	22.2	5	470.3	1,520.0	428.6
Subtotals	124.6	8	\$2,861.2	4,675.9	\$1,845.7
SOUTHERN ONTARIO					
Algonquin	-	-	\$ -	815.5	\$286.8
Eastern	12.9	-	75.2	483.9	159.9
Central	-	-	-	111.2	62.5
Southwestern	-	-	-	160.0	33.4
Subtotals	12.9	-	\$ 75.2	1,570.6	\$ 542.6
PROVINCIAL TOTALS	137.5	8	\$2,936.4	6,246.5	\$2,388.3

Program includes: Forest Access, Agreement Forest, Ministry Service,
 Fuelwood Access, Public Transport, Private Forest Road
 Maintenance Agreements and Recreational Access Roads.

1984/85 NORTHERN ONTARIO RESOURCES
TRANSPORTATION COMMITTEE - DIRECT PROGRAM (MNR portion only)

REGION	kms Con./Recon.	Bridges Con./ Recon.	Expendi- tures (\$000s)	kms Main- tained	Expendi- tures (\$000s)	kms Winter Road	Expendi- tures (\$000s)
Northwestern	22.5	-	\$1,624.8	78.0	\$39.2	235.0	\$314.1
North Central	-	2*	21.9	-	-	-	-
Northern	47.7	1	927.0	-	-	288.0	103.5
Northeastern	-	-	-	12.0	11.2	-	-
TOTAL	70.2	3	\$2,573.7	90.0	\$50.0	523.0	\$417.6

* culverts replaced

1984/85 NORTHERN ONTARIO RESOURCES TRANSPORTATION
COMMITTEE - INDIRECT PROGRAM (COMPANY) - (MNR Portion Only)

REGION	kms Con./Recon	Bridges Con./Recon.	Expenditures (\$000s)
Northwestern	19.9	-	\$299.1
North Central	12.8	-	143.1
Northern	-	-	-
Northeastern	20.0	1	128.1
TOTAL	52.7	1	\$570.3

\$28.4 expenditure for Snowmobile Trails
TOTAL N.O.R.T.C. EXPENDIURE - \$3,640.4

1984/85 FOREST MANAGEMENT
SUBSIDIARY AGREEMENT PROGRAM*

CROWN PROJECTS			
REGION	kms Con./Recon.	Bridges Con./Recon.	Expenditures (\$000s)
Northwestern	25.0	-	\$2,031.1
North Central	33.8	-	4,856.5
Northern	10.0	-	425.2
Northeastern	18.0	2.0	2,199.9
Contract Staff	-	-	82.7
TOTAL	86.8	2.0	\$9,803.1
COMPANY PROJECTS			
REGION	kms Con./Recon.	Bridges Con./Recon.	Expenditures (\$000s)
Northwestern	-	-	-
North Central	6.9	-	\$281.8
Northern	33.8	-	504.1
Northeastern	-	-	-
TOTAL	40.7	-	\$785.9
TOTAL PROGRAM	127.5	2.0	\$10,589.0

* FMSA Program is co-funded by the federal and provincial governments.

1984/85 FOREST MANAGEMENT AGREEMENT PROGRAM*
(Partially Funded by BILD)

REGION	kms Con./Recon.	Expenditures (\$000s)	kms Maintained	Expenditures (\$000s)
Northwestern	247.9	\$ 5,935.1	195.8	\$ 82.1
North Central	219.9	5,143.0	527.6	227.5
Northern	714.6	18,066.1	896.9	435.1
Northeastern	171.0	3,942.5	156.4	58.9
TOTAL	1,353.4	\$33,086.7	1,776.7	\$803.6

The FMA Program is funded in accordance with agreements between MNR and forest companies.

1984/85 RESOURCE ACCESS PROGRAM SUMMARY
MNR ROAD & BRIDGE CONSTRUCTION & MAINTENANCE

Crown	MNR Roads Program	NORTC Program	FMSA Program	FMA Program	Totals
Road Con./ Recon. (kms)	137.5 8 Bridges	70.2 3 Bridges	86.8 2 Bridges	-	294.5 13 Bridges
Expenditures	\$2,936.4	\$2,573.7	\$9,803.1	-	\$15,313.2
Road Main- tained (kms)	6,246.5	90.0	-	-	6,336.5
Expenditures	\$2,388.3	\$ 50.4	-	-	\$ 2,438.7
Winter Roads Maintained (km)	-	523.0	-	-	523.0
Expenditures	-	\$ 417.6	-	-	\$ 417.6

ROADS & BRIDGES CONSTRUCTED & MAINTAINED
BY COMPANIES UNDER AGREEMENT

Company	NORTC Program	FMSA Program	FMA Program	Totals
Road Con./ Recon. (kms)	52.7 1 Bridge	40.7	1,353.4	1,446.8 1 Bridge
Expenditures	\$570.3	\$ 785.9	\$33,086.7	\$34,442.9
Road Main- tained (kms)	-	-	1,776.7	1,776.7
Expenditures	-	-	\$803.6	\$803.6

Lands and Waters Group

SURVEYS AND MAPPING BRANCH




Room W-3440, Main Office Telephone (416) 965-6225

Surveyor General, Branch Director	J. H. O'Donnell.....	W-3448.....6225
Surveying Services, General Mgr..	S. B. Panting.....	W-3446.....4538
Surveys Manager.....	D. E. Norris.....	W-3449.....2714
Asst. Mgr. Examinations.....	J. E. Hietala.....	W-3444.....2714
Asst. Mgr. Technical Services..	J. A. MacIntosh.....	W-3447.....2714
Survey Research and		
Descriptions.....	R. F. Weatherbe.....	W-3442.....2714
Survey Records Information.....	D. E. Jeanes.....	W-3422.....1416
Geographical Referencing Mgr...	J. H. Kerr.....	W-3425.....4538
Mathematical Adjustments, Head.	Z. Jiwani.....	W-3427.....4538
Control Survey Analyst.....	K. M. Kelly.....	W-3427.....4789
LRIS Analyst and Technologist..	G. R. Zillmer.....	W-3450.....2779
Geodetic Analyst.....	C. Broughton.....	W-3423.....2198
Mapping Services, General Manager	C. T. Osborne.....	W-2540.....4941
Cartographic Services.....	F. W. Dawson.....	W-2540.....4743
Drafting Services Manager.....	D. W. Robeson.....	W-2540.....1823
Nomenclature Services Manager..	M. B. Smart.....	W-2601.....6515
Basic Mapping Manager.....	B. Jackson.....	W-2540.....1208
Chief Contract Monitor.....	R. Audas.....	W-2640.....0293
Ontario Centre for Remote Sensing		
880 Bay Street, Toronto, Ont. M5S 1Z8		
Associate Director.....	V. Zsilinszky.....	8411
Chief Scientist.....	S. Pala.....	8411
Senior Scientist.....	A. Jano.....	8411
Staff Scientist.....	R. Mussakowski.....	8411
Staff Scientist.....	T. Ellis.....	8411
Research Officer, Engineering..	V. Singhroy.....	8411
Airborne Program Co-ordinator..	I. Ross.....	8411
Airborne Program Specialist....	E. Senese.....	8411
Photo Research Lab Supervisor..	D. Klimes.....	8411



MAPPING SERVICES
ONTARIO BASIC MAPPING



1:20 000 , 1:10 000 scales

-  Completed .
-  In progress .
-  To be mapped

1:2 000 scale

- 128 Municipalities completed
- 18 Municipalities in progress

SURVEYING SERVICES

-  Area of original township surveys .
-  Township boundaries resurveyed / restored .

9771 kms completed .



SURVEYING SERVICES

Township Boundary Resurvey Program

Year	Km. Resurveyed
<hr/>	
1961-62	334.34
1962-63	277.93
1963-64	276.89
1964-65	604.39
1965-66	601.94
1966-67	466.07
1967-68	419.07
1968-69	442.59
1969-70	424.87
1970-71	494.71
1971-72	529.47
1972-73	388.93
1973-74	306.95
1974-75	395.11
1975-76	277.82
1976-77	324.82
1977-78	328.31
1978-79	494.39
1979-80	525.29
1980-81	461.72
1981-82	407.57
1982-83	405.30
1983-84	307.50
1984-85	276.0
<hr/>	
Total	9,771.40
<hr/>	

CROWN LAND SURVEY PLAN EXAMINATIONS

Year	No. Plans Examined
1978-79	270
1979-80	317
1980-81	323
1981-82	641
1982-83	791
1983-84	831
1984-85	501

DESCRIPTIONS PREPARED

Year	No. Descriptions Prepared
1978-79	897
1979-80	903
1980-81	779
1981-82	1,052
1982-83	1,585
1983-84	2,119
1984-85	1,618

PROVINCIAL HORIZONTAL CONTROL SURVEY

Data Base COSINE

Year	Stations Loaded
1981-82	10,000
1982-83	13,000
1983-84	11,000
1984-85	3,000
Total	37,000

PRECISE CALIBRATION BASELINE INSTALLATION

Year Installed	Baseline Name
1977-78	Mississauga
1979-80	Scarborough
1980-81	Burlington
1981-82	London
1982-83	Belleville
1983-84	Lindsay & Conestoga

Lands and Waters Group

OFFICE OF INDIAN RESOURCE POLICY

Room 6527, Whitney Block Telephone (416) 965-6045

Director.....	E. G. Wilson.....	W-6527.....6045
Secretary.....	S. W. Ko (acting).....	W-6527.....6045
Indian Resource Policy Advisor...	S. J. Houston.....	W-6529.....5201
Clerk Steno.....	S. W. Ko.....	W-6528.....5201
Senior Indian Land Claims		
Researcher.....	D. T. McNab.....	W-6526.....5201
Indian Land Claims Researcher....	L. C. Hansen.....	W-6530.....5201
Indian Land Claims Researcher....	D. J. Bourgeois.....	W-6530.....5201
Clerk Steno.....	P. Williams.....	W-6520.....5201

Lands and Waters Group

CONSERVATION AUTHORITIES AND
WATER MANAGEMENT BRANCH

Section 6, 5th Floor, Main Office Telephone (416) 965-6285

Branch Director.....	M. R. Garrett.....	W-5620.....6287
CONSERVATION AUTHORITIES SECTION		
Manager.....	R. D. Hunter.....	W-5620.....6285
Co-ordinator, Technical Systems..	G. S. Sardesai.....	W-5620.....6275
Administrative Assistant.....	Mrs. D. Green.....	W-5620.....6270
Planning Systems Co-ordinator....	T. E. Farrell.....	W-5620.....6286
Librarian.....	Ms A. Perrigo.....	W-5641.....4481
Supervisor, Program		
Implementation and Evaluation....	G. W. Price.....	W-5620.....6285
Head, Conservation and		
Recreation Land Mgmt. Program..	R. J. Dickie.....	W-5620.....1573
CA Transfer Payment		
Co-ordinator	Mrs. M. E. Willard.....	W-5620.....7694
Special Employment Co-ordinator	Mrs. S. E. Court.....	W-5641.....1799
TECHNICAL SERVICES SECTION		
Manager.....	R. B. Chang (acting).....	W-5620.....6295
Flood Damage Reduction Program		
Co-ordinator.....	Mrs. C. T. Kowalyk.....	W-5620.....6281
Supervisor, Streamflow		
Forecast Centre.....	P. N. Gryniowski.....	W-5636.....6292
Head, Hyrdometeorological Unit	R. A. Fox.....	W-5636.....6293
Emergency Mgmt. Co-ordinator..	L. J. Balogh.....	W-5636.....6277
Senior Policy Advisor,		
Water Management.....	R. P. Milligan.....	W-5620.....6281
Supervisor, Models and		
Consultative Services.....	R. M. Odell (acting).....	W-5620.....1271
Head, Model Development.....	J. Y. Ding.....	W-5641.....1271
Models Specialist.....	S. K. So.....	W-5641.....1271
Water Resource Engineer.....	D. L. Strelchuk.....	W-5620.....1271

GRANTS TO CONSERVATION AUTHORITIES
UNDER THE CONSERVATION AUTHORITIES ACT

in years ending March 31

Year	Administration	Water and Related Land Mgmt	Conservation and Recreation Land Mgmt	Lake Ontario Waterfront	Total
1980	\$4,756,983	\$20,466,353	\$3,404,736	\$1,530,000	\$30,158,072
1981	5,202,220	27,724,128	3,436,411	1,500,342	37,863,102
1982	5,517,581	26,496,443	2,953,315	1,469,780	36,437,119
1983	6,591,399	26,693,614	3,130,218	1,574,000	40,989,231
1984	7,098,874	26,852,944	3,751,372	-	37,703,190
1985	7,483,719	25,023,841	4,223,991	-	36,731,551

AVIATION AND FIRE
MANAGEMENT CENTRE

Box 310, Sault Ste. Marie, Ontario P6A 5L8
Telephone (705) 942-1800 Telex 067-77166, 067-77134

Director.....	J. F. Goodman.....	(705) 942-1800
Co-ordinator, Management & Planning.....	G. E. Doan.....	1800
Finance and Administration Spvr..	W. A. Sinclair.....	1800
Purchasing Officer.....	E. M. Esson.....	1800
Fire Management Section		
Assistant Director, Fire.....	R. G. Elliott.....	1800
Provincial Fire Operations.....	J. G. Minor, Spvr.....	1800
Research & Development.....	R. J. Drysdale, Spvr.....	1800
Fire Management Education Co-ordinator.....	R. B. Little.....	1800
Assistant Director, Air.....	R. Kincaid.....	1800
Chief Pilot.....	A. L. Stewart.....	1800
Maintenance Superintendent.....	G. Willoughby.....	1800
Assistant Supt. Maintenance		
Airframe Section.....	G. Larocque.....	1800
Engine Section.....	P. F. Holder.....	1800
Quality Control Inspector.....	J. S. Denley.....	1800
Communications Supervisor.....	H. Kling.....	1800
Flight Ops. Officer		
Malton Airbase.....	W. C. Clarke.....	(416) 678-1172
China Project		
Canadian Project Director.....	G. A. Wright.....	(705) 942-1800

FOREST FIRE RECORD

Areas in hectares

Year	Damage \$	Private Property Damage \$	Area Burned Over			Number of Fires	Area per Fire
			Crown	Private	Total		
1917	-	-	-	-	155,466	1,110	140
1918	-	-	-	-	12,210	965	12
1919	-	-	-	-	373,186	1,780	210
1920	-	-	-	-	145,222	1,287	113
1921	-	-	-	-	303,326	1,269	239
1922	-	-	-	-	140,099	1,021	151
1923	-	-	-	-	857,995	1,343	639
1924	-	-	-	-	55,091	851	69
1925	-	-	-	-	76,705	1,149	67
1926	-	-	26,664	9,100	35,764	1,110	32
1927	-	-	9,216	5,248	14,464	924	16
1928	-	-	39,026	1,598	40,624	536	76
1929	-	-	246,353	6,836	253,189	1,550	163
1930	-	-	144,688	143,371	288,059	1,402	206
1931	-	-	42,843	13,120	55,963	1,851	30
1932	-	-	253,558	21,232	274,790	2,073	133
1933	-	-	131,537	10,086	141,623	1,919	74
1934	-	-	64,891	15,493	80,384	1,568	51
1935	-	-	74,090	27,309	101,439	1,309	77
1936	-	-	466,957	44,741	511,698	2,264	226
1937	-	-	81,701	9,251	90,952	1,453	63
1938	-	-	38,918	17,028	55,946	1,292	43
1939	-	-	10,558	1,218	11,776	961	12
1940	-	-	40,869	8,346	49,215	1,014	49
1941	-	-	109,991	159,751	269,742	1,265	213
1942	-	-	31,448	14,571	46,019	1,224	38
1943	-	-	13,543	7,831	21,374	624	34
1944	-	-	29,635	38,713	68,348	1,137	60
1945	-	-	7,283	12,348	19,631	966	20
1946	-	-	18,072	12,995	31,877	1,739	18
1947	-	-	15,416	18,591	34,007	1,393	24
1948	-	-	345,917	65,806	411,723	2,036	202
1949	-	-	16,427	7,880	24,307	1,834	13
1950	55,148	103,682	5,343	9,541	14,884	985	15
1951	389,447	56,389	39,118	1,854	40,972	904	45
1952	29,504	31,347	2,940	2,087	5,027	1,095	4
1953	393,874	81,778	18,016	5,782	23,508	1,520	16
1954	406,241	15,650	14,615	7,518	22,133	881	25
1955	3,591,680	184,940	150,118	10,309	160,427	2,252	71
1956	3,068,152	22,319	89,768	1,777	91,545	1,017	90

Year	Damage	Private Property Damage	Area Burned Over			Number of Fires	Area per Fire
			Crown	Private	Total		
1957	463,059	113,751	9,814	9,065	18,879	1,671	11
1958	311,503	97,036	10,337	4,496	14,833	1,558	10
1959	22,041	20,757	1,044	1,093	2,137	1,029	2
1960	438,094	56,442	11,813	888	12,701	956	13
1961	31,989,802	152,639	477,894	1,549	479,433	1,305	367
1962	74,748	99,165	3,069	2,517	5,586	1,521	4
1963	706,888	39,932	16,467	6,251	22,718	1,885	12
1964	500,296	19,792	9,090	2,291	11,381	1,829	6
1965	386,850	254,105	6,068	1,987	8,055	1,218	6
1966	71,521	49,457	3,421	2,413	5,834	1,921	3
1967	1,353,919	87,638	23,768	1,930	25,698	1,465	17
1968	4,174	54,146	1,078	2,751	3,829	1,219	3
1969	134,756	4,623	1,813	669	2,482	901	3
1970	1,323,041	28,815	-	-	23,527	1,239	18
1971	462,064	75,875	-	-	14,649	1,790	8
1972	1,081,876	47,446	-	-	32,029	1,604	20
1973	11,944	121,900	2,417	1,190	3,607	1,111	3
1974	12,063,428	239,384	522,641	1,346	523,987	1,625	323
1975	683,726	340,414	11,226	5,630	16,856	3,146	5
1976	26,839,738	930,514	536,529	7,578	544,107	3,985	136
1977	11,190,900	252,565	411,752	4,564	416,316	2,049	203
1978	165,267	139,386	7,040	483	7,523	940	8
1979	2,310,161	60,032	63,322	393	63,715	1,564	41
1980	72,094,096	3,254,443	524,893	35,847	560,740	1,779	315
1981	9,171,418	60,906	173,479	5,994	179,473	1,656	108
1982	116,695	71,068	2,555	1,337	3,892	1,396	3
1983	15,230,649	352,210	442,156	1,499	443,655	2,244	198
1984	787,487	652,985	118,851	1,567	120,418	1,240	97

1984 FOREST FIRES BY DISTRICT

District	Number of Fires	Hectares Burned Over	ha per Fire
Dryden	72	185.1	2.6
Fort Frances	47	455.1	9.7
Ignace	22	7.3	.3
Kenora	160	3,260.3	20.4
Red Lake	82	91,966.8	1,121.5
Sioux Lookout	70	6,176.0	88.2
Atikokan	44	104.3	2.4
Geraldton	24	9,973.4	415.6
Nipigon	24	8.1	.3
Terrace Bay	13	24.0	1.8
Thunder Bay	62	4,777.5	77.1
Chapleau	27	35.1	1.3
Cochrane	7	10.0	1.4
Gogama	9	201.5	22.4
Hearst	8	68.0	8.5
Kapuskasing	6	102.5	17.1
Kirkland Lake	14	2,175.6	155.4
Moosonee	2	208.4	104.2
Timmins	15	162.2	10.8
Blind River	16	5.2	.3
Espanola	11	9.8	.9
North Bay	55	70.1	1.3
Sault Ste. Marie	13	47.3	3.6
Sudbury	67	95.3	1.4
Temagami	12	10.0	.8
Wawa	17	18.7	1.1
Algonquin Park	22	1.8	.1
Bancroft	23	18.1	.8
Bracebridge	61	35.7	.6
Minden	30	17.0	.6
Parry Sound	33	39.5	1.2
Pembroke	44	47.1	1.1
Carleton Place	10	3.0	.3
Tweed	65	70.3	1.1
Huron	24	8.5	.4
Lindsay	15	8.2	.5
Owen Sound	14	11.3	.8
TOTAL	1,240	120,418.1	97.1

1984 FOREST FIRES BY MONTH

Month	Number of Fires	Hectares Burned Over	ha per Fire
March	3	.8	.3
April	389	6,107.1	15.7
May	186	17,426.4	93.7
June	87	1,320.5	15.2
July	182	43,567.1	239.4
August	260	51,911.8	199.7
September	96	55.2	.6
October	31	21.3	.7
November	6	7.9	1.3
TOTAL	1,240	120,418.1	97.1

DETECTION OF FOREST FIRES

Agencies	1980	1981	1982	1983	1984
Ministry Aircraft	484	394	230	595	169
Total Organized Detection	484	394	230	595	169
Public Other Aircraft	1,021 268	1,062 200	1,038 128	1,277 372	948 123
Total Random Detection	1,295	1,262	1,166	1,649	1,071
Total Fires	1,779	1,656	1,396	2,244	1,240
Percentage Organized Detection	27	24	17	27	14

SIZES OF FOREST FIRES

Area Burned Over	1984
Up to .2 hectares	643
Over .2 to 4.0 hectares	493
Over 4.0 to 40 hectares	72
Over 40 to 202 hectares	12
Over 202 hectares	20
Total Fires	1,240

PROSECUTIONS

Actions re: Forest Fires	1980	1981	1982	1983	1984
Prosecutions	178	46	72	89	78
Convictions	171	40	68	82	73

CAUSES OF FOREST FIRES - I

General Causes	1980	1981	1982	1983	1984
Recreation	239	493	517	494	276
Resident	232	150	224	181	221
Incendiary	34	59	39	48	69
Railways	233	153	160	161	94
Industry (Forest)	26	36	11	36	21
Industry (Other)	15	38	22	25	45
Miscellaneous (Known)	160	209	156	178	199
Unknown	47	33	30	31	29
Lightning	793	485	237	1,090	286
Total Fires	1,779	1,656	1,396	2,244	1,240

CAUSES OF FOREST FIRES - II

Source of Ignition	1980	1981	1982	1983	1984
Smoking Materials	173	285	323	250	136
Camp Fires	117	251	243	274	157
Matches	87	109	105	94	98
Fireworks	-	2	1	2	-
Explosives	-	2	-	1	-
Fusee	4	10	9	3	5
Prescribed Burning	-	3	3	2	1
Dump Ashes, Coals	7	6	9	7	6
Burning Grass	74	46	73	38	44
Burning Brush	35	36	37	52	55
Burning Rubbish	38	17	44	31	35
Burning Garbage Dump	33	15	23	34	33
Burning Bulldozed Pile	3	4	-	3	3
Burning Sawdust Pile	1	2	2	-	3
Burning Ties	14	16	19	9	12
Burning Right-of-Way	9	10	20	9	8
Locomotive, Diesel	48	38	27	35	14
Locomotive, Steam	-	-	-	-	-
Brake Shoe	101	47	44	61	30
Overheated Journal Box	6	2	-	2	-
Rail Grinding	-	-	-	13	7
Power Saw	7	7	2	3	4
Mechanical Equip. (Other)	34	49	34	30	12
Mechanical Equipment (Scarification)	-	-	-	9	6
Power Line (Short)	17	21	15	32	114
Sparks from Chimney	2	-	2	1	2
Sparks from Burner	2	1	1	1	1
Structural Fires	10	11	11	16	8
Miscellaneous (Known)	51	54	23	26	32
Unknown	114	129	91	116	128
Lightning	792	483	235	1,090	286
Total Fires	1,779	1,656	1,396	2,244	1,240

CAUSES OF FOREST FIRES - III

Responsible Groups	1980	1981	1982	1983	1984
RECREATION					
Fishermen	81	184	158	161	110
Hunters	4	25	16	13	15
Canoeists	13	23	45	37	22
Campers	41	48	61	69	28
Picnickers	10	10	14	20	1
Berry Pickers	39	105	141	91	38
TRAVELLERS					
Car Passengers	70	96	76	61	35
Hikers	10	28	25	28	10
Train Passengers	-	1	-	-	1
Guided Parties	1	2	2	-	-
RESIDENTS					
Farmers	27	18	26	26	17
Rural Residents	116	88	138	103	127
Urban Residents	15	8	12	13	5
Private Cottagers	45	32	34	44	42
Resort Owners	-	5	2	-	5
Indians (on Reserves)	21	16	14	34	46
VOCATION					
Trappers	-	1	-	-	1
Prospectors	-	2	1	2	4
Timber Cruisers (not MNR)	-	-	-	-	-
Survey Parties	-	-	-	-	-
Military	-	1	1	-	-
EMPLOYEE OF					
Woods Industry	21	31	12	33	16
Mining	2	9	1	4	1
Pipeline	-	-	-	-	-
Hydro	3	3	2	4	5
Telephone	1	1	-	1	-
Highway or Road	2	1	1	1	1
R. R. Section Crew	24	22	39	25	16
R. R. Train Crew	32	24	24	21	17
R. R. Work Crew	167	102	94	110	57
Other Industry	12	17	12	9	11
Natural Resources	10	34	17	6	10
Other Prov. Government	-	1	-	1	-
Federal Government	-	-	-	1	-
Municipality	5	3	6	5	2
MISCELLANEOUS					
Children	60	77	68	76	82
Youth Camps	1	3	-	6	3
Miscellaneous (Known)	50	40	24	66	134
Unknown	103	112	94	83	92
Total Human-Caused Fires	986	1,173	1,160	1,154	954
Percentage of All Fires	55	71	83	51	77

AIR SERVICE SUMMARY - I

Hours flown in years ending March 31

Year	Fire Ranging	Timber	Fish and Wildlife	Surveys	Lands	Parks
1980	2,000	1,650	2,500	345	1,000	600
1981	3,000	1,674	2,473	342	1,065	609
1982	1,973	1,760	2,600	360	1,120	640
1983	3,037	1,670	2,460	425	1,217	530
1984	1,364	1,725	2,328	423	1,093	625
1985	1,640	1,830	2,960	478	1,309	590

Total 1924-85	245,307	44,148	117,399	4,776	20,014	15,501
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Year	Research	Inter- Ministry	Photo	Mercy Flights	Misc.	Total
1980	400	1,550	550	30	4,525	15,150
1981	380	1,372	621	19	3,662	15,217
1982	400	1,647	656	58	4,789	16,003
1983	456	1,885	640	13	2,855	15,188
1984	450	3,078	572	22	3,111	14,791
1985	474	3,931	680	29	454	14,375

Total 1924-85	11,263	40,579	8,794	1,945	179,182	689,565
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AIR SERVICE SUMMARY - II

in years ending March 31

Year	Mercy Flights	Passengers Carried	Loads Carried Tons	Metric Tons
1980	13	27,336	1,023.04	1,132
1981	10	25,480	801.06	883
1982	28	28,485	988.00	1,089
1983	8	30,267	2,069.17	2,280
1984	16	29,175	1,856.73	1,893
1985	13	31,023	1,988.50	2,192

PRESCRIBED BURNING SILVICULTURE, HAZARD RED., MISC.

<u>District</u>	<u>Burns</u>	<u>Hectares</u>
Fort Frances	1	129.5
Geraldton	2	688.0
Chapleau	2	793.0
Cochrane	1	145.0
Gogama	3	480.5
Hearst	2	404.5
Kapukasing	2	120.0
Kirkland Lake	1	251.0
Timmins	1	1,254.5
Blind River	1	271.0
Sault Ste. Marie	2	207.5
Parry Sound	15	146.5
		<hr/>
	33	4,891.0

FEDERAL RESEARCH BURNS

<u>District</u>	<u>No. of Burns</u>	<u>No. of Plots</u>	<u>Hectares</u>
Timmins	2	9	8.3
Blind River	1	5	.7
		<hr/>	
	3	14	9.0

ADMINISTRATION DIVISION

Room W-6345, Main Office Telephone (416) 965-7106

Assistant Deputy Minister.....	R. M. Monzon.....	W-6345.....7106
Administrative Assistant.....	Mrs. W. Paquette.....	W-6344...3-2005
Secretary.....	Mrs. E. Lynch.....	W-6345.....7106
Finance and Administration Group		
Executive Co-ordinator.....	D. J. Johnstone.....	W-6347.....6148
Affirmative Action		
Program Co-ordinator.....	J. Mizanski (acting)....	W-6441.....5663
Communications Services Branch		
Director.....	T. Coleman.....	W-5352.....3315
Personnel Services Branch		
Director.....	H. B. Farrant.....	W-4530.....3825
Legal Services Branch		
Director.....	B. G. Jones (acting)....	W-6420.....2748
Office of Management, Planning and Analysis		
Director.....	P. Bryant.....	W-6350.....4143

Administration Division

COMMUNICATIONS SERVICES
BRANCH

Room W-5340, Main Office Telephone (416) 965-2756

Branch Director.....	T. E. Coleman.....	W-5352...5-3315
Secretary.....	Miss M. Goh.....	W-5340...5-3315
Communications Policy Co-ordinator	P. Andrews.....	W-5340...5-2756
Senior Communications Planner....	G. Merchant (acting)....	W-5441...3-2958
Northern Ontario Communications		
Co-ordinator.....	K. Robertson.....	W-5340...5-2756
Information Services Section.....	Ms. V. Chavossy, Mgr....	W-5340...5-2756
French Language Policy.....	Ms. F. Blais.....	W-5340...3-2026
Writing Co-ordinator.....	Ms. M. Welch.....	W-5340...3-2756
French Language Writer.....	Ms. M. Blouin.....	W-5340...3-0163
Magazine Editor.....	P. Surguy (acting).....	W-5340...5-2758
Media Liaison Supervisor.....	C. Ross.....	W-5340...5-2756
Public Information Centre		
Supervisor.....	Mary-Ellen Stoll.....	W-1640...5-2445
Parks Information.....	.....	W-1640...5-3081
Fisheries Information.....	.....	W-1640...5-7883
Wildlife Information.....	.....	W-1640...5-4251
Forestry/Lands Information.....	.....	W-1640...5-9751
Maps Information.....	.....	W-1640...5-6511
Aerial Photos.....	.....	W-1640...5-1123
Minerals Information.....	.....	W-1640...5-1348
Creative Services Section.....	J. Grayston Mgr (acting)	W-5440...5-2780
Exhibits & Displays Unit.....	Mrs. E. H. Brown, Spvr..	W-5440...5-2780
Publications Services Unit.....	Ms. C. Haines	
	Spvr., (acting).....	W-5440...5-2780
Publications Editor.....	Ms. M. Reid.....	W-5440...5-2780
Graphic Designer.....	A. Gokhan.....	W-5440...5-2780
Audio Visual Unit.....	A. Campeau, Spvr.(acting)	W-5440...3-1325
Photographers.....	W. Lanning.....	W-5440...3-1325
	Miss H. Bickle.....	W-5440...3-1325
Photo Library.....	Miss P. Hancock.....	W-5341...5-2758
Film & Audio-visual Consultant.	L. Walton.....	W-5440...3-1325
Advertising & Marketing Unit		
Co-ordinator.....	Ms. P. Purves.....	W-5441...3-2956
Marketing Officer.....	Ms. B. Fairley.....	W-5441...3-2957

Administration Division

PERSONNEL SERVICES BRANCH

Room W-4520, Main Office Telephone (416) 965-3825

Branch Director.....	H. B. Farrant.....	W-4530...3825
M.O.S.S. Unit		
Manager.....	E. Polonoski.....	W-4601...7240
Corporate Personnel Services		
Manager.....	E. Cardwell.....	W-4531.3-2692
Personnel Policy & Staff Relations		
Manager.....	R. Gordon.....	W-4528...6091
Occupational Health & Safety Section		
Manager.....	A. B. Shipston.....	W-5645...2735

STAFF SUMMARY

Total MNR Staff as of March 31, 1985

	Regular	Probationary	Unclassified	Total
Main Office	943	49	449	1,441
Field Office	2,911	56	1,197	4,164
TOTAL	3,854	105	1,646	5,605

Total Number of Positions	4,159
Total Number of Staff	3,959
Total Number of Vacancies	200
New Employees Hired 1984/85	101

Management Staff	1,032
Executive Staff	39
Bargaining Unit Staff	2,847
Position Excluded Staff	41

Total	3,959
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Deceased	8
Transferred	16
Released	3
Resigned	44
Dismissed	2
Retired	59

Total	132
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STAFF SUMMARY

at March 31, 1985

	1980	1981	1982	1983	1984	1985
Regular Staff	4,088	4,060	4,093	4,163	3,948	3,819
Probationary Staff	341	322	203	141	49	140
Unclassified Staff	1,938	1,636	1,565	1,380	1,601	1,646
TOTAL	6,367	6,018	5,867	5,684	5,598	5,605
Main Office Staff	917	880	863	917	887	992
Field Office Staff	3,512	3,502	3,439	3,387	3,110	2,967
New Employees	316	306	140	160	57	101
Deceased	11	10	9	12	11	8
Superannuated	89	99	45	78	156	59
Transferred	38	1	36	17	18	16
Resigned	199	165	81	73	85	44
Dismissed	3	3	1	1	2	2
Released	1	5	0	1	1	3
Miscellaneous	0	29	0	1	0	0
Total Separations	341	312	172	183	273	132
Junior Rangers	1,800	1,736	1,736	1,636	1,716	1,716

MANAGEMENT GROUPS

Administrative	240
Clerical	17
Operational	13
Professional	273
Technical	489

Total	1,032
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Executive Compensation Plan	39
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Position Excluded	41
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BARGAINING UNIT CATEGORIES

Administrative Services	97
Scientific & Professional	418
Technical Services	1,296
Office Services	333
Clerical Services	420
Maintenance Services	221
General Operational Services	62

Total	2,847
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Administration Division

LEGAL SERVICES BRANCH *

Room W-6420, Main Office Telephone (416) 965-2748

Director (acting).....	B. G. Jones.....	W-6420.....2748
Solicitors.....	S. B. Campbell.....	W-6420.....2748
	C. L. Cottle.....	W-6420.....2748
	M. M. Crystal.....	W-6420.....2748
	W. R. Grace.....	W-6420.....2748
	S. A. Klein.....	W-6420.....2748
	L. A. Low.....	W-6420.....2748
	C. E. Mansfield.....	W-6420.....2748
	D. A. Pigeon Bernotas...	W-6420.....2748
	J. Skala.....	W-6420.....2748
	T. N. Trow.....	W-6420.....2748
	M. N. K. Toor.....	W-6420.....2748

* Legal Services Branch was transferred to the Attorney General on April 1, 1973, and was seconded to the Minister of Natural Resources on the same date.

Legal matters dealt with by the Branch include legal opinions, drafting statutes, regulations, orders in council, litigation and all other matters of a legal nature affecting the Ministry.

LEGISLATION

The Acts administered by the Ministry are as follows:

LANDS AND WATERS GROUP

THE BEDS OF NAVIGABLE WATERS ACT (sometimes referred to as the "Cochrane Act") is declaratory legislation relating to title in the beds of navigable waters. It followed the decision in the 1911 case of Keewatin Power versus The Town of Kenora. By the Act, the beds are deemed not to have passed to the grantee of bordering Crown land in the absence of an express grant.

THE ONTARIO GEOGRAPHIC NAMES BOARD ACT provides for the establishment of a Geographic Names Board for Ontario having the duty to gather information respecting the names of places and geographical features, make recommendations thereon, collaborate with the Canadian Permanent Committee on Geographic Names, and provide information to government departments, etc. The Minister may approve a recommended name and thereupon it shall be used by all government departments and agencies in the preparation of maps and other publications.

THE ONTARIO HARBOURS AGREEMENT ACT, 1962-63, confirms on behalf of Ontario the agreement between Ontario and Canada establishing the harbours which were public harbours at Confederation, providing that mines and minerals therein are administered by Ontario and confirming grants and quit claims listed therein. The federal harbours are Amherstburg, Belleville, Brockville, Chatham, Collingwood, Fort William, Gananoque, Goderich, Kincardine, Kingston, Kingsville, Leamington, Oshawa, Owen Sound, Penetanguishene, Port Arthur, Port Burwell, Port Hope, Port Stanley, Prescott, Rondeau Bay, Sarnia, Sault Ste. Marie, Southampton, Toronto, Whitby and Windsor.

THE PUBLIC LANDS ACT provides for: (1) A Public Agricultural Lands Committee to recommend on agricultural lands and their settlement, replacing the regulations on this subject; (2) The disposition of Crown land for a variety of purposes by sale, lease or licence, and by auction or tender; (3) The management of Crown land by the Ministry by zoning for land use, setting apart for public use, research, etc., and through agreements with municipalities on beaches and water lots; (4) The administration of roads on Crown lands including the designation of public forest roads and agreements with occupiers of private forest roads respecting the use by the public of private forest roads; (5) The administration and control of the construction and maintenance of dams; (6) The granting of water powers and privileges.

THE SURVEYORS ACT deals with the Association of Ontario Land Surveyors and the rules governing membership and conduct. The Minister or his appointee and the Surveyor-General are members of the Council of the Association.

THE SURVEYS ACT defines the system of surveys and the rules for surveyors. The Minister orders surveys made on his volition or upon application to settle disputes or lost lines, etc.; and hearing evidence, he confirms the surveys, with or without amendment. His decision is subject to appeal to a judge of the Divisional Court.

THE NORTH GEORGIAN BAY RECREATIONAL RESERVE ACT, 1962-3, establishes the North Georgian Bay Recreational Reserve and provides for the planning and development thereof and the appointment of a committee to advise the Minister thereon.

THE MINING ACT with respect to: the administration of public lands for mining purposes; the issuing of licences and leases relating to exploration and drilling for, and the production of, minerals and oil and natural gas; the staking and recording of mining claims; and the rights of licensees and lessees under the Act. An acreage tax is levied under this Act. (See under Mineral Resources Group).

THE BEACH PROTECTION ACT prohibits the removal of sand from the bed, bank, beach, shore or waters of any lake, river or stream in Ontario except under the authority of a licence issued under the Act or written consent of the local municipality.

THE CANADA COMPANY'S LAND ACT, 1922, empowers the Crown to sell and convey to purchasers of lands from the Canada Company the mineral rights in the lands.

THE LAKES AND RIVERS IMPROVEMENT ACT deals with: the construction, repair and use of dams; timber driving; and timber slide companies. The Act prohibits construction of dams without Ministry approval. The Minister is given discretionary powers relating to the repair, reconstruction and removal of dams, maintenance of water levels, and regulation of use of waters or works.

THE CONSERVATION AUTHORITIES ACT provides for the establishment of conservation authorities for the purpose of establishing and undertaking in the area over which they are given jurisdiction, programs designed to further the conservation, restoration, development and management of natural resources other than gas, oil, coal and minerals.

FOREST RESOURCES GROUP

ARBOREAL EMBLEM ACT, 1984 adopts the Eastern White Pine as the arboreal emblem of the Province of Ontario.

THE CROWN TIMBER ACT enables the granting of the following four types of licences to cut Crown timber, a licence based on a call for tenders, a licence to salvage timber, a licence for areas that do not exceed 64.75 hectares (160 acres), and a licence approved by Order in Council for large areas.

The act also enables the Minister to enter into comprehensive forest management agreements with members of the forest industry to ensure that forests under the agreements are harvested and regenerated to produce successive crops of timber on a sustained yield basis.

Crown Management Units may be established under the Act and agreements entered into for the supply of Crown timber from such units. Under this arrangement, the party to the agreement does not have exclusive rights in a specific area until a licence is granted to him to fill his requirements for an operating season.

Crown dues and area charge are fixed by the regulations.

Other subjects dealt with are: forest management, operating and annual plans; examination of scalers and licensing of scalers; licensing of mills; penalties for wasteful practices, unauthorized cutting, removal of timber for scaling, and other violations; and protection of the Crown's interests through seizure of timber and a statutory lien for Crown charges.

THE FORESTRY ACT. Under this Act: (1) The Minister enters into agreements with landowners such as municipalities, conservation authorities and the National Capital Commission (Ottawa) to manage the forest lands; (2) Ministry tree nurseries are established and nursery stock is distributed; (3) Private forest reserves are set up on private lands with the consent of the owner; (4) The Minister, with the approval of the Lieutenant Governor in Council, may establish programs for the encouragement of forestry. At present, a managed forest tax reduction program has been established by the Minister.

THE SETTLERS' PULPWOOD PROTECTION ACT provides for the regulation of the sale and of the price of pulpwood cut from settlers' land.

THE SPRUCE PULPWOOD EXPORTATION ACT provides for the exportation under the authority of an Order in Council of unmanufactured spruce pulpwood from lands granted under special Acts which prohibit such export.

THE TREES ACT provides that, with the Minister's approval, municipalities may pass by-laws restricting and regulating the destruction of trees and appoint enforcement officers. Generally, by by-law, municipalities may acquire land for forestry purposes and enter into agreements with the Minister for the management of such lands and related matters.

THE WOODLANDS IMPROVEMENT ACT provides for the Minister to enter into agreements with owners of lands suitable for forestry purposes and situate in a private forest management area for the planting of nursery stock or stand improvement.

THE WOODMEN'S EMPLOYMENT ACT authorizes the appointment of inspectors and the making of regulations respecting conditions in lumber camps. It also provides that Crown timber licensees are responsible for the acts and omissions of their jobbers and subcontractors who carry out operations.

THE WOODMEN'S LIEN FOR WAGES ACT provides a lien and a procedure to enforce such lien for persons performing labour on timber.

THE ALGONQUIN FORESTRY AUTHORITY ACT establishes a Crown corporation known as the Algonquin Forestry Authority to harvest Crown timber in Algonquin Provincial Park and public lands adjacent to the park, to sell the logs and also to carry out such forestry, land management and other programs and projects as the Minister of Natural Resources authorizes.

THE FOREST TREE PEST CONTROL ACT provides for the control of outbreaks of forest tree insects and diseases on private lands.

MINERAL RESOURCES GROUP

THE MINING ACT with respect to: the issuing and administration of exploratory licences and production leases for oil and natural gas on public lands in designated parts of Ontario; processing applications for exemptions from restrictions on foreign processing; refinery licences; and the regulation of mining operations conducted within Ontario except under Part IX. (Also see under Lands and Waters Group.)

THE PITS AND QUARRIES CONTROL ACT provides for the regulation of pit and quarry operations in designated parts of Ontario. Operations in designated areas must be licensed under the Act and are subject to periodic review to assure compliance with the provisions of the Act, the regulations and site plan.

THE PETROLEUM RESOURCES ACT sets forth licensing requirements for various aspects of oil and natural gas exploration, drilling and production and provides for the making of regulations respecting oil and gas conservation and the safe operation of drilling and production facilities.

THE MINING TAX ACT a revenue generating unit which offers incentives to mineral producers for exploration, production and processing in Ontario, imposes a profit tax on Ontario mines. The tax is assessed on the value of output of the mine at the pit's mouth determined in accordance with the provisions of the Act.

THE ONTARIO MINERAL EXPLORATION PROGRAM ACT provides incentives to encourage mineral exploration activities in the province by providing grants/tax credits equal to 25 per cent of eligible exploration expenses to prospectors, non-producing exploration companies and to individual investors and corporations not directly engaged in mining activities in order to stimulate the financing of mineral exploration.

THE INDUSTRIAL AND MINING LANDS COMPENSATION ACT provides for agreements between the owner or operator of a mine and the owner or lessee of any land for payment of compensation for any damage or injury resulting or likely to result to the land or to its use and enjoyment from the operation of the mine.

THE GAS AND OIL LEASES ACT sets out the procedure whereby a lessor under a gas or oil lease may, upon default by the lessee under the terms of the lease, obtain an order declaring the lease void.

OUTDOOR RECREATION GROUP

THE ENDANGERED SPECIES ACT provides for the conservation, protection, restoration and propagation of species of flora and fauna of the Province of Ontario that are threatened with extinction.

THE GAME AND FISH ACT deals with the management of wildlife resources; game animals; game birds (upland); fur-bearing animals; frogs; sale and rearing of game fish; and offences and enforcement. Regulations made under the Act establish open seasons for hunting and trapping; bag limits; Crown game preserves; the licensing of hunters, trappers, guides, persons operating game bird hunting preserves, and persons selling game fish for stocking and human consumption; the regulating of dogs used in hunting, aircraft transporting hunters, and conduct of hunters (hunter safety); and farmer-hunter relations. The Game and Fish Hearing Board was established under the Act on November 15, 1973.

THE FISH INSPECTION ACT is complementary to the Federal Act.

THE FISHERIES ACT (CANADA) Ontario Fishery Regulations are made under this Act. They relate to open seasons for angling and commercial fishing and the licences required. The form of licences and the fees are prescribed under the Game and Fish Act.

THE FISHERIES LOAN ACT provides for loans to persons carrying on the business of commercial fishing or any other business dependent in whole or in part on the taking of fish from waters in which such taking has been prohibited by reason of the contamination of fish resulting from pollution of the water. Provision is made for federal-provincial agreements respecting the sharing of such loans.

THE FRESHWATER FISH MARKETING ACT (ONTARIO) complements the Freshwater Fish Marketing Act (Canada). Through these Acts and the federal-provincial agreement, the Freshwater Fish Marketing Corporation established under the Federal Act is the sole purchaser of commercial fish, as defined in the Federal Act, taken in that part of Ontario designated in the regulations, i.e., that part of Ontario westerly of longitude 86 degrees except the Territorial District of Rainy River but including that part of Lake of the Woods in the Territorial District of Rainy River. Sales to and purchases by persons for their own consumption or for consumption by persons or animals in the course of the purchaser's business are excepted.

THE WILD RICE HARVESTING ACT prohibits the harvesting of rice on Crown land except under the authority of a licence.

THE WOLF DAMAGE TO LIVESTOCK COMPENSATION ACT, 1972, provides for payment of compensation to the owners of livestock killed or injured by wolves.

THE MIGRATORY BIRDS CONVENTION ACT. Open seasons for migratory birds are set under this Act.

THE PROVINCIAL PARKS ACT provides for the establishment of provincial parks and their management and for certain employees having the authority of the O.P.P. in a provincial park. Advisory committees for one or more provincial parks may be appointed by the Minister with the approval of the Lieutenant-Governor in Council. Parks may be classified as a natural environment park, a nature reserve park, a wilderness park, a recreational park, a waterways park, or an historical park. Any of these classes may be zoned with controlled use in zones.

Mining is prohibited in provincial parks except as provided in the regulations. The regulations on mining were revoked in 1956 but rights and interest existing at that time were preserved.

Hunting is prohibited in provincial parks except as provided in the regulations under the Game and Fish Act or where the prohibition is removed by designation of the Lieutenant-Governor in Council under the Provincial Parks Act. This does not apply to the Townships of Bruton and Clyde (added to Algonquin Provincial Park by a Special Act).

Concession leases are granted under the Act. The province calls for tenders for buildings and facilities.

Vehicle admission charge is \$2.50 per day or \$25.00 for the season. Campsite charges are \$6.75 per day, or \$7.25 per day where comfort station facilities are available, and \$8.75 per day for campsites with electrical power. The charge for an extra car on a campsite is \$3.00 per day. On unorganized campsites in park interiors the charge is \$2.00 per person.

The above fees reflect those charged during peak periods. They may vary, depending on location and time of year.

This Act does not apply to any park under the management of the Niagara Parks Commission, the St. Lawrence Parks Commission or the St. Clair Parkway Commission.

THE WILDERNESS AREAS ACT was passed on March 26, 1959, to preserve areas having some unique feature. Development or utilization of the natural resources in an area more than 260 ha (640 acres) in size is not affected by this Act.

THE PARKS ASSISTANCE ACT provides for the establishment of parks in municipalities or in territory without municipal organization. The Minister may with the approval of the Lieutenant-Governor in Council make grants not exceeding 50 per cent of the cost of acquiring land and developing such parks. The parks established under the Act are to be maintained and operated in a manner complementary to provincial parks.

AVIATION AND FIRE MANAGEMENT CENTRE

THE FOREST FIRES PREVENTION ACT applies to the seven fire regions set up by regulation. The fire season from April 1st to October 31st, may be extended by regulation. Fire permits are required during the fire season to (a) start fires in a fire region except for fires set out for cooking or warmth or to (b) ignite fireworks in or within 300 m of a forest or woodland. Work permits are required at any time of the year for carrying on any logging, mining, industrial operation or clearing in or within 300 m of a forest or woodland. Areas may be established as restricted fire zones in which fires for cooking or warmth will be restricted to portable stoves and barbecues or as restricted travel zones in which a travel permit will be required except on public roads, cities, towns, villages, police villages, supervised camping grounds and water adjacent thereto. The Minister may declare emergency areas and may make orders for suppression and the safety and evacuation of persons. The Minister may enter into agreements with Canada, any province, any federal or provincial agency or municipality respecting the prevention and control of forest fires. The regulations establish fire precautions.

GENERAL

THE MINISTRY OF NATURAL RESOURCES ACT effective as of April 1, 1972, created the new Ministry of Natural Resources by amalgamating the former Department of Lands and Forests and Department of Mines and Northern Affairs and repealed the provisions of a number of Acts on which the departments depended for administrative authority. Effective October 30, 1973, the Act provides for the appointment of a Mining and Lands Commissioner and advisory committees.

THE LAKE OF THE WOODS CONTROL BOARD ACT, 1922, is complementary to a Federal Act of 1921. It deals with the regulation of the water levels of the Winnipeg River, the English River, Lac Seul and Lake St. Joseph. The Board was created following a report in 1917 by the International Joint Commission which was established under a treaty made in 1909 between the United States and Great Britain. The membership of the Board consists of a Federal representative and one from Manitoba and two from Ontario. One Ontario member is appointed by the Ontario Hydro. The other is R. M. Odell, Chairman of the Lake of the Woods Control Board and Acting Supervisor, Models and Consultative Services, Conservation Authorities and Water Management Branch, Ministry of Natural Resources, with D. L. Strelchuk as alternate member.

The Board has the duty to secure severally and at all times the most dependable flow and the most advantageous and beneficial use of the Winnipeg and English Rivers and, for the purpose, to regulate the overflow of:

- (a) Lake of the Woods, to levels recommended by the International Joint Commission as agreed by Canada and the United States;
- (b) Lac Seul, to levels recommended by the Board and approved by the Lieutenant-Governors in Council of Ontario and Manitoba and to regulate the flow into Lac Seul through the Lake St. Joseph diversion.
- (c) Winnipeg River, between its junction with the English River and Lake of the Woods, and the English River between its junction with the Winnipeg River and Lac Seul; and
- (d) Other waters of the watershed of the Winnipeg River as are placed under its jurisdiction by the Governor-General in Council and the Lieutenant-Governors in Council of Ontario and Manitoba.

THE LAC SEUL CONSERVATION ACT, 1928, provides for the execution of an agreement between the Minister of Lands and Forests and the Government of Canada regarding the construction of a conservation dam at the outlet of Lac Seul.

THE OTTAWA RIVER WATER POWERS ACT, 1943, ratifies and confirms an agreement between the Province of Ontario, the Province of Quebec, the Hydro-Electric Power Commission of Ontario and the Quebec Streams Commission respecting the development of water power on the Ottawa River.

THE SEINE RIVER DIVERSION ACT, 1952, confirms the partial diversion of the Seine River and authorizes the completion and operation of the diversion by Steep Rock Iron Mines Limited.

THE NATIONAL RADIO OBSERVATORY ACT, 1962-3, provides for the transfer of administration and control of certain public lands in the Township of White, District of Nipissing, to Canada for the maintenance and operation of a national radio observatory.

THE GANANOQUE LANDS ACT, 1961-2, vests certain lands in the town of Gananoque in the Crown and authorizes the sale of encroachments to adjoining owners for a fee of \$50.00 and the granting of the balance of the land.

THE ALGONQUIN PROVINCIAL PARK EXTENSION ACT, 1960-1, adds the public lands in the Geographic Townships of Bruton and Clyde in the Provincial County of Haliburton to the park, subject to hunting.

THE MINERAL EMBLEM ACT, 1975, adopts the amethyst as the mineral emblem of the Province of Ontario.

THE MANITOBA-ONTARIO LAKE ST. JOSEPH DIVERSION AGREEMENT AUTHORIZATION ACT, 1958, provides for entry by Ontario and The Hydro-Electric Power Commission of Ontario into an agreement with Manitoba and The Manitoba Hydro-Electric Board in respect of the diversion of waters into the Winnipeg River and electrical power generated from such waters in Ontario and Manitoba.

MINING AND LANDS COMMISSIONER

Box 330, 24th Floor, 700 Bay St. Telephone (416) 965-1824
 Toronto, Ontario M5G 1Z6

Commissioner..... G. H. Ferguson, Q.C.
 Administrative Assistant..... J. K. Kinsella

JUDGEMENTS, ORDERS AND REPORTS

Year	Extensions for Work and Lease	Extensions For Tagging	Special Renewals of Licences	Misc.	Total
1979	858	-	63	73	994
1980	1,046	1	74	60	1,181
1981	1,338	1	73	75	1,487
1982	1,430	-	80	154	1,664
1983	1,411	-	74	119	1,604
1984	1,703	1	85	191	1,980
1985	2,032	-	113	255	2,400

PROJECTED REVENUE FROM EXTENSION ORDERS

Year	No. of Claims Prior To Default	Amount	No. of Claims Relief from Forfeiture	Amount
1979	8,147	\$40,735	871	\$ 8,710
1980	8,434	42,170	694	6,940
1981	11,957	59,785	1,329	13,290
1982	13,692	68,460	1,801	18,010
1983	13,675	68,375	1,863	18,630
1984	19,960	99,800	3,714	37,140
1985	26,129	\$130,645	5,156	51,560

HEARINGS UNDER STATUTES OF THE MINISTRY

Year	Beach Protection Act	Conservation Authorities Act	Lakes & Rivers Improve- ment Act	Mining Act	Mining Tax Act	Other	Total
1979	-	11	1	9	3	-	24
1980	-	11	1	6	1	-	19
1981	-	4	1	13	-	-	18
1982	-	17	-	36	1	1	55
1983	-	16	1	27	-	-	44
1984	-	12	2	35	-	-	49
1985	-	16	-	53	-	-	69

MATTERS WITHDRAWN, ABANDONED OR TRANSFERRED TO SUPREME COURT

1979	-	8	-	-	1	-	9
1980	-	12	4	4	1	-	21
1981	-	1	-	3	-	-	4
1982	-	9	-	3	-	-	12
1983	-	3	-	9	-	-	12
1984	-	4	-	6	-	-	10
1985	-	2	1	10*	-	-	14

* one application to transfer to Supreme Court was refused by it.

Administration Division

FINANCE AND
ADMINISTRATION GROUP

Room W-6347, Main Office Telephone (416) 965-6148

Executive Co-ordinator.....	D. J. Johnstone.....	W-6346.....6148
Secretary.....	Heather Daley.....	W-6346.....6147
Co-ordinator, Systems Implementation.....	J. A. Queen.....	W-6341.....3322

SYSTEMS SERVICES BRANCH

Main Office, Room W-6540 (416) 965-5671

Director.....	J. H. Findeis.....	W-6547.....2750
Systems Co-ord. Mgr.....	C. K. Moulson.....	W-6546.....5674
Manager, Data Base.....	L. Bailey.....	W-6545...3-1327
Operations Supervisor.....	D. Trentadue.....	W-5426.....3794
Major Systems, Sr. Systems Officer.....	L. Davidson.....	W-6544.....3790
Advanced Technology Systems Senior Systems Officer.....	R. Orawski.....	W-6502...3-2391
Technical Support Supervisor.....	M. Zillman.....	W-6543...3-2392
Sr. Systems Co-ordinator.....	J. Sanford.....	W-5611...3-1450

INTERNAL AUDIT SERVICES BRANCH

Room W-4633, Main Office Telephone (416) 965-4087

Branch Director.....	A. A. Ward.....	W-4637.....4087
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Main Office Audit Section Audit Manager.....	D. L. Lay.....	W-4634.....4087
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Northern Audit Section

Box 5000

Thunder Bay, P7C 5G6

Audit Manager.....	N. D. Nurse.....	(807) 475-1211 (IC 844)
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Sault Ste.Marie sub-office

875 Queen Street East

Sault Ste.Marie, P6A 2B3

Senior Auditor.....	W. C. Johnstone.....	(705) 949-1231 (IC 842)
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Southern Audit Section

c/o District Office

Maple, L0J 1E0

Audit Manager.....	D. A. Dooling.....	(416) 832-2761 Ext.281
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Administration Division

FINANCIAL RESOURCES BRANCH

Room W-4325, Main Office, Telephone (416) 965-2761

Director.....	Mark Cox.....	W-4324...5-2761
Chief Accountant.....	Ian Nott.....	W-4326...5-2761
Financial Control Section.....	Ron McDougal.....	W-4320...5-1895
Financial Reporting & Claims Section.....	Vince Ferrara.....	W-4320...5-1895
Financial Methods Section.....	George Jarzabek.....	W-4328...5-1218
Financial Policy Development Section.....	Ed Young.....	W-4501...5-1033
Accounting Operations.....	Paul Comeau.....	W-4340...5-9774
Accounting Section.....	Claudette Obelnycki.....	W-4441...5-2251
Accounts Payable Section.....	Tom Tunnicliff.....	W-4303...5-2764
Licence Issuing Section.....	Terry Headley.....	W-4342...5-2814
Payroll Section.....	Lorne Bent (acting).....	W-4341...5-2766
Revenue Section.....	Shirley Perry.....	W-4443...5-2770
Program Planning & Budget Section.....	David Cope.....	W-4420...5-7086
Financial Planning & Program Evaluation Section.....	Philip Wormwell.....	W-4427...5-7182

Administration Division
Finance and Administration Group

REVENUE AND EXPENDITURES

in years ending March 31

Year	Budgetary Revenue \$	Budgetary Expenditure \$
1981	275,562,265	349,475,311
1982	160,546,904	363,253,018
1983	135,735,095	374,348,745
1984	149,669,629	407,490,465
1985	238,765,999	437,550,337

LANDS REVENUE

in years ending March 31

Year	Water Power \$	Crown Land Sales \$	Crown Land Rentals \$	Park Rentals & Fees \$	Pits and Quarries Licences \$	Land Use Permits \$
1981	19,158,930	2,936,644	754,447	131,733	114,125	478,788
1982	20,604,400	2,243,525	947,993	125,483	159,275	558,492
1983	23,613,132	1,690,312	994,362	-	162,750	647,007
1984	25,593,045	1,719,761	959,100	-	165,015	712,854
1985	67,389,828	1,499,961	939,607	-	158,225	873,559

Year	Assignments & Extension Fees \$	Cons. Federal Authorities Agreements \$	Return of Authorities Grants \$	Recovery Prior Years Land Acquisition \$	Misc. \$	Total \$
1981	85,131	413,588	69,325	2,243	270,350	24,415,304
1982	16,300	511,589	469,201	103,966	87,549	25,827,773
1983	20,453	1,103,543	148,277	2,791	115,146	28,497,773
1984	22,575	137,594	172,653	38,597	386,148	29,907,342
1985	22,600	698,991	165,550	62	337,812	72,086,195

TIMBER REVENUE

in years ending March 31

Year	Stumpage Charges \$	Timber Area Charges \$	Nursery Tree Sales \$	Agreement Forest \$	Federal Agreement \$	Misc. \$	Total \$
1981	47,266,552	4,401,176	609,097	282,646	1,885	92,587	52,653,943
1982	38,204,534	4,437,802	818,152	354,783	9,751	68,697	43,893,719
1983	39,137,899	3,435,840	943,801	539,326	-	64,177	44,121,043
1984	46,754,081	4,625,266	606,385	586,724	5,763	67,840	52,646,059
1985	55,473,234	4,375,434	659,927	410,222	145,372	73,940	61,138,129

MINING REVENUE

in years ending March 31

Year	Licences and Permits	Mining Claims	Sale of Mining Lands	Rentals	Royalties
1981	111,328	639,844	11	847,501	2,380,790
1982	319,952	537,731	3,191	582,818	2,250,102
1983	412,918	528,050	1,375	1,695,196	6,101,775
1984	569,477	661,066	3,003	732,129	4,660,987
1985	197,787	781,015	-	1,402,097	6,768,365

Year	Taxes	Forfeit- ures	Labor- atory Fees	Rec. of Prior years Expenditure	Federal Agree- ment	Total
1981	161,061,781	4,060	108,408	-	-	165,153,723
1982	55,411,740	2,840	153,161	-	-	59,261,535
1983	26,178,380	1,980	163,410	-	1,187,031	36,270,115
1984	32,544,776	2,700	178,985	-	1,479,939	40,833,062
1985	65,093,544	1,640	90,285	-	2,327,747	76,662,480

PROVINCIAL PARKS REVENUE

in years ending March 31

Year	Permits \$	Campsite Permits \$	Concessions Rental \$	St. Lawrence Lic. & Permits \$
1981	935,283	5,585,691	477,926	1,931,825
1982	1,215,227	5,519,852	356,984	1,933,584
1983	1,195,392	6,555,071	402,132	-
1984	1,392,446	6,620,918	387,401	-
1985	1,154,514	6,749,029	347,185	-

Year	Federal Agreement \$	St. Clair Pkwy. Commission \$	Misc. \$	Total \$
1981	2,448,976	15,000	133,917	11,528,618
1982	1,572,055	18,000	188,964	10,804,666
1983	190,089	1,500	162,470	8,506,654
1984	14,879	-	155,269	8,570,913
1985	-	-	134,860	8,385,588

FISH AND WILDLIFE REVENUE

in years ending March 31

Year	Non-Res. Angling \$	Other Fishing \$	Commercial Fishing \$	Non-Res. Hunting \$
1981	7,513,033	152,757	122,301	1,605,102
1982	7,610,191	156,957	117,419	1,490,490
1983	7,466,134	169,829	148,254	1,382,798
1984	7,256,322	172,716	65,009	1,212,760
1985	9,197,224	185,642	179,953	1,262,753

FISH AND WILDLIFE REVENUE

Year	Resident Bear \$	Resident Deer \$	Resident Moose \$	Resident Groundhog \$	Res.(Gun) Hunting \$
1981	87,738	1,184,553	1,483,473	100,653	1,629,245
1982	122,105	1,296,196	1,375,086	83,677	1,584,495
1983	132,636	1,362,761	1,719,562	78,807	1,580,569
1984	147,866	1,507,761	1,404,361	2,782	1,490,967
1985	131,238	1,641,430	1,768,078	-	1,513,349

Year	Dog \$	Trappers \$	Fur Dealers \$	Hunter Exam Fee \$	Prov. Park Hunting \$
1981	76,998	69,635	8,400	90,006	66,088
1982	75,957	65,387	8,950	85,722	53,400
1983	73,258	62,923	9,675	86,178	67,264
1984	72,939	57,252	8,925	59,967	64,712
1985	75,278	56,259	9,150	63,342	50,160

Year	Misc. Fees & Licences \$	Royalty Game \$	Agreements		Total \$
			Outside Agencies \$	Federal \$	
1981	118,488	1,201,461	76,016	291,475	15,877,422
1982	140,728	1,159,433	123,947	361,447	15,911,587
1983	229,813	729,477	165,750	80,254	15,545,942
1984	194,324	669,126	120,829	431,243	14,939,861
1985	404,620	639,480	90,584	291,905	17,560,445

OTHER CASH RECEIPTS

in years ending March 31

Year	Sale of Maps, Publications etc. \$	Fire Costs Recovered \$	House Rentals \$	Sale of Buildings \$	Sale of Van and Equip. \$
1981	2,265,256	651,527	415,824	14,513	1,648,707
1982	2,300,366	670,538	450,197	5,112	479,650
1983	686,651	306,055	411,266	30,012	393,846
1984	634,013	160,740	402,108	6,946	490,149
1985	761,511	114,668	367,696	13,355	505,729

Year	Con- fiscated Articles \$	Frost Centre \$	Non-Recurring Items and Misc. \$	Board & Lodging \$	Total \$
1981	21,714	296,127	378,010	241,577	5,933,255
1982	46,149	340,651	379,107	175,854	4,847,624
1983	59,412	401,061	301,008	204,257	2,793,568
1984	42,695	457,832	403,170	174,739	2,772,392
1985	59,176	497,619	465,681	147,727	2,933,162

Administration Division

ADMINISTRATIVE SERVICES BRANCH

Room W-5528, Main Office Telephone (416) 965-2711

Branch Director.....	T. Pierro (acting).....	W-5528.....2711
Branch Administration		
Co-ordinator.....	Ms. M. Clement.....	W-5520.....2711
Operations Analysis.....	R.E. Armstrong, Chief...	W-5526.....3317
Administrative Services Analyst	Ms. S. Fasken.....	W-5520.....4600
Fleet & Insurance.....	L. Krol.....	W-5504.....1255
Co-ordinator, Supply Mgmt. Unit	Ms. L. Wright.....	W-5520.....4600
Contracting Specialist.....	P. Mooradian.....	W-5520.....4600
Contracts Clerk.....	K. Browne.....	W-5520.....4600
Purchasing Specialists.....	W. Howson.....	W-5520.....4600
	Ms. B. Martin.....	W-5520.....4600
Services.....	H. L. Bembridge, A/Chief	W-5527.....4600
Purchasing Unit.....	Ms. M. Marcel, Mgr.....	W-5533.....1601
Facilities Development Unit....	P. Coghill, Mgr.....	W-5423.....4645
Facilities.....	J. Petersen.....	W-5423.....4645
Accommodation Services.....	S. Fenton.....	W-5423.....4645
Forms and Records Management.	.....	W-5422.....3822
Support Services Unit.....	D. Sibley A/Mgr.....	W-5302.....5134
Office Services.....	.....	W-5302.....5134
Vehicle & Assets Officer.....	Ms. L. Burchat.....	W-5302.....5134
Copy Centre Services.....	.....	W-5501.....6790
Mail Services.....	.....	W-5310.....2778
Telex & Telecopier Services..	.....	W-5312.....2784
Central Supply Warehouse.....	D. Billingham A/Spvr....	.....1286
(51 Esander Drive, Toronto)		
Conferences, Hospitality		
Services.....	M. D. Cantelon.....	W-5301.....6166

VEHICLES AND EQUIPMENT IN SERVICE

in year ending March 31, 1985

Type	Number in Operation
Subcompact Cars and Station Wagons	7
Compact Cars and Station Wagons	189
Full-size Cars and Station Wagons	77
Standard and Extended Pickups	829
Four-wheel Drive Vehicles	295
Crew Cabs	86
Passenger Vans and Personnel Carriers	154
Buses	6
Cab and Chassis - 10,000 GVW	83
Cab and Chassis - over 10,000 GVW	123
Cab and Chassis - specialized bodies	25
TOTAL	1,874
Motorcycles	49
Trailers (boat and equipment)	985
Trailers (refrigerated)	26
Snowmobiles	598
Tractors	355

NORTHWESTERN REGION

Box 5160, 810 Robertson St., Kenora Ont. P9N 3X9
Phone (807) 468-3111

D. R. Johnston.....	Regional Director
W. J. Straight.....	Deputy Reg. Director
D. R. Fortner.....	Deputy Reg. Director
G. N. McGeachy.....	Admin. Co-ordinator
A. G. Mathews.....	Forester
G. K. Winterton.....	Biologist
G. N. Warner.....	Safety Officer
R. C. Beard.....	Mineral Resources Co-ordinator
R. H. Hanlan.....	Senior Planner
D. M. C. Lindstrom.....	Operations & Services Co-ordinator
K. J. Chambers.....	Resource Development Co-ordinator
W. Kostantin.....	Personnel Officer

Fire Management Centre

T. Campbell, Program Manager - Fire Management
Box 850, Dryden... Phone (807) 937-4402

Dryden Tree Nursery

M. McIntyre, Nursery Supt.
Box 90, Wabigoon... Phone (807) 938-6326

KENORA DISTRICT

Box 5080, 808 Robertson St., Kenora, Ont. P9N 3X9.
Phone (807) 468-9841

D. B. McGregor.....	District Manager
R. G. McCue.....	Administration
D. Philippi.....	Field Services
W. H. Mills.....	Forests
T. J. Lunny.....	Land Management
R. W. Paterick.....	Parks
C. E. Blackburn.....	Geologist
M. D. Hall.....	Mining Recorder

FORT FRANCES DISTRICT

922 Scott Street, Fort Frances, Ont. P9A 1J4
Phone (807) 274-5337

J. K. Cleaveley.....	District Manager
T. M. McWhirter.....	Administration
S. E. Cameron.....	Parks & Operations
E. J. Swift.....	Fish & Wildlife
A. P. Matiece.....	Forests
C. E. Horne.....	Land Management
A. P. Colfer.....	Pilot

SIOUX LOOKOUT DISTRICT

Box 309, Sioux Lookout, Ont. POV 2T0
Phone (807) 737-1140

J. Young.....	District Manager
W. L. Bertrand.....	Administration
H. D. Morrison.....	Operations/Parks
A. A. Martin.....	Fish & Wildlife
B. A. Ferguson.....	Forests
F. E. Brown.....	Land Management
D. A. Janes.....	Geologist
R. Spooner.....	Mining Recorder

DRYDEN DISTRICT

Box 730, Ontario Govt. Bldg., Dryden, Ont. P8N 2Z4
Phone (807) 223-3341

G. M. Tupling.....	District Manager
J. A. Hamilton.....	Administration
J. A. MacDonald.....	Parks & Operations
F. D. Kennedy.....	Forests
H. Gibbard.....	Fish & Wildlife
E. M. Wires.....	Land Management

RED LAKE DISTRICT

Box 5003, Red Lake, Ont. POV 2M0
Phone (807) 727-2253

E. W. Everley.....	District Manager
B. A. Larkin.....	Administration/Operations
N. Ward.....	Fish & Wildlife
Vacant.....	Forests
E. R. Keast.....	Land Management/Parks
M. J. Lavigne.....	Geologist
A. S. Rivett.....	Mining Recorder

IGNACE DISTRICT

Box 448, Ignace, Ont. POT 1T0
Phone (807) 934-2233

P. Wyatt.....	District Manager
W. A. Brunton.....	Administration
P. R. Croskery.....	Fish & Wildlife
R. D. Scott.....	Forests
J. D. Bond.....	Field Services
P. J. Pincombe.....	Land Management

NORTH CENTRAL REGION

Box 5000, Ontario Government Building
 435 James St. South, Thunder Bay 'F' Ont. P7C 5G6
 Phone (807) 475-1261

G. P. Elliott.....	Regional Director	
L. M. Affleck.....	Deputy Reg. Director	
W. Hendry.....	Deputy Reg. Director	
N. Nurse.....	Admin. Co-ordinator.....	1221
R. T. Thomson.....	Biologist.....	1231
A. B. Johnson.....	Fire Mgt. Program Manager.....	1265
R. B. Adamson.....	Engineer.....	1301
J. T. Rudolph.....	Forester.....	1251
D. J. Murray.....	Lands Co-ordinator.....	1321
A. W. Currie.....	Parks/Rec. Co-ordinator.....	1281
K. G. Fenwick.....	Geologist.....	1331
M. N. Kantymir.....	Personnel.....	1201
J. E. Jackson.....	Senior Planner.....	1495
F. Barbetti.....	Information Officer.....	1695

Dorion Fish Culture Station, F. S. Watson..... Phone (807) 857-2322
 Regional Fire Centre
 L. R. Hutchinson - Fire Services..... Phone (807) 475-1664
 R. Doyon - Fire Operation..... Phone (807) 475-1405
 Thunder Bay Forest Nursery, R. A. Klapprat..... Phone (807) 939-2561

THUNDER BAY DISTRICT

Box 5000, Thunder Bay 'F', Ont. P7C 5G6
 Phone (807) 475-1511

T. R. Isherwood.....	District Manager
B. G. Griffin.....	Administration
H. D. Howell.....	Fish & Wildlife, Parks & Rec.
R. G. Klein.....	Forests
J. W. Suttie.....	Lands & Eng. Serv.

GERALDTON DISTRICT

Box 640, Geraldton, Ont. POT 1M0
 Phone (807) 854-1030

E. H. Stone.....	District Manager
L. S. Morrow.....	Administration
W. J. Cook.....	Fish & Wildlife
D. Jovic.....	Forests
A. Hoshino.....	Lands, Parks & Eng. Services

ATIKOKAN DISTRICT

108 Saturn Avenue, Atikokan, Ont. POT 1C0
Phone (807) 597-6971

A. M. Harjula.....	District Manager
R. N. Boyle.....	Field Services and Administration
B. H. Gibson.....	Fish & Wildlife
.....	Forests
D. H. Elder.....	Lands & Parks

NIPIGON DISTRICT

Box 970, Nipigon, Ont. POT 2J0
Phone (807) 887-2120

J. E. Christian.....	District Manager
M. Wilson.....	Administration
L. Townes.....	Fish & Wildlife
S. Tenaglia.....	Forests
D. Bean.....	Lands & Parks & Eng. Serv.

TERRACE BAY

Box 280, Terrace Bay, Ont. POT 2W0
Phone (807) 825-3205

P. A. Strassburger.....	District Manager
B. A Prince.....	Field Services & Administration
J. A. Chappel.....	Fish & Wildlife
J. Nickleson.....	Lands & Parks

Manitouwadge Work Centre
Box 309, Manitouwadge, Ontario
POT 2C0 Phone (807) 826-3225
R. Waito..... Forests

NORTHERN REGION

Box 3000, 140 Fourth Ave., Cochrane, Ont. POL 1C0
 Phone (705) 272-4287

R. Riley.....	Regional Director
M. P. Barker.....	Deputy Reg. Director
R. I. Thompson.....	Fin. & Admin. Co-ordinator
D. E. McHale	Deputy Reg. Director
60 Wilson Avenue, Timmins, Ont. P4N 2S7	
Phone (705) 267-1401	
H. I. Mattson.....	Outdoor Rec. Co-ordinator
J. S. Dougan.....	Personnel Manager
B. Blais.....	Fire Management Officer
C. Roswalka.....	Safety Manager
M. S. Paradis.....	Mineral Res., Eng./Lands Co-ordinator
T. Isherwood.....	Forester
R. J. Landry.....	Operations Manager
J. R. Kenrick.....	Regional Planning Co-ordinator
P. G. Mongraw.....	Systems Co-ordinator
D. G. O'Reilly.....	Information Officer

COCHRANE DISTRICT

Box 730, 2 Third Ave, Cochrane, Ont.
 POL 1C0 Phone (705) 272-4365

J. F. Gosnell.....	District Manager
G. Nantel.....	Administration
Vacant.....	Eng./Prk. Supervisor
J. Starr.....	Forests
R. J. Jackson.....	Fish & Wildlife/Lands

KAPUSKASING DISTRICT

6 Government Road, Kapuskasing, Ont P5N 2W4
Phone (705) 335-6191

R. G. Lightheart.....	District Manager
L. Keller.....	Operations Supervisor
C. Jessop.....	Fish & Wildlife
K. Buck.....	Forests
D. Miller.....	Lands & Parks

CHAPLEAU DISTRICT

190 Cherry Street, Chapleau, Ont. POM 1K0
Phone (705) 864-1710

F. J. Wilson.....	District Manager
J. R. Russell.....	Operations Supervisor
P. W. Varrin.....	Fish & Wildlife
P. K. Bidwell.....	Forests
J. P. Dick.....	Lands & Waters
G. W. Dingee.....	Parks & Rec.

KIRKLAND LAKE DISTRICT

Box 129, Swastika, Ont. POK 1T0
Phone (705) 642-3222

C. E. Emblin.....	District Manager
G. E. Allick.....	Operations Supervisor
L. Chamberlin.....	Fish & Wildlife
L. K. Ternent.....	Forests
J. A. Colquhoun.....	Lands

Swastika Forest Station, L. J. Forcier.....	Phone (705) 642-3255
Hill's Lake Trout Rearing Station, P. Graf.....	Phone (705) 544-2834

GOGAMA DISTRICT

896 Riverside Drive, Timmins, Ont. P4N 3W2
Phone (705) 267-7951

A. F. Papineau.....	District Manager
C. Mason.....	Officer-in-Charge
R. Fink.....	Administration
J. Cavanagh.....	Fish & Wildlife
C. Mason.....	Forests
L. LaCarte.....	Lands & Parks

TIMMINS DISTRICT

896 Riverside Drive, Timmins, Ont. P4N 3W2
 Phone (705) 267-7951

A. F. Papineau.....	District Manager
V. A. Mathieu.....	Operations Supervisor
T. Corbett.....	Fish & Wildlife
K. Wisikin.....	Forests
C. R. Biggar.....	Lands & Parks

HEARST DISTRICT

631 Front St., Hearst, Ont. POL 1N0
 Phone (705) 362-4346

W. H. Therriault.....	District Manager
W. C. Trowsse.....	Administration
L. G. Woods.....	Field Services
S. St. Jules.....	Fish & Wildlife
D. Stillar.....	Forests (362-4264)
M. J. Girouard.....	Lands & Parks

MOOSONEE DISTRICT

Box 190, Moosonee, Ont.
 POL 1Y0 Phone (705) 336-2987

S. Toole.....	District Manager
L. Bent.....	Administration
G. F. McAuley.....	Field Services
K. G. Abrahams.....	Biologist
Vacant.....	Outdoor Rec.
W. A. Hutchison.....	Lands

NORTHEASTERN REGION

199 Larch Street, 9th Floor, Sudbury, Ont. P3E 5P9
 Phone (705) 675-4120

M. A. Klugman.....	Regional Director
J. E. Hamilton.....	Deputy Regional Director
S. Gourlay.....	Regional Finances and Admin. Co-ordinator
P. E. Giblin.....	Regional Resources/Lands Mgt. Co-ord.
M. Chambers.....	Personnel Services Co-ordinator
R. G. Running.....	Regional Information Officer
A. W. McClellan.....	Cons. Auth. Program Supervisor
W. E. Belisle.....	Fire Management Program Manager
W. C. Stevens.....	Regional Forester
E. A. Wright.....	Parks/Rec. Co-ordinator
J. R. Chevalier.....	Regional Biologist
H. Walsh.....	Regional Engineer

Tarentorus Trout Rearing Station
(S.S. Marie)..... Phone (705) 949-1231
 Hatchery Manager - T. P. Hohenadel

North Bay Trout Rearing Station
 M. Bohm, Manager (North Bay).... Phone (705) 663-2311

Sandfield Fish Hatchery
 G. Clark, Manager (Espanola).... Phone (705) 859-3370

Kirkwood Nursery, Supt..... G. W. Connell

SAULT STE. MARIE DISTRICT

Box 130, 857 Queen St., Sault Ste. Marie, Ont. P6A 5L5
 Phone (705) 949-1231

J. H. Sellers.....	District Manager
H. J. Smith.....	Administration Supvr.
E. R. Thomas.....	Fish & Wildlife Supvr.
B. Smith.....	Forests Mgt. Supvr.
I. J. Valentine.....	Lands & Parks Supvr.
E. Vaughan.....	Engineering Services Suprv.

SUDBURY DISTRICT

Box 3500, Stn. A, Sudbury, Ont. P3A 4S2
Phone (705) 522-7823

J. A. Simpson.....	District Manager
M. H. Jackson.....	District Administration Supvr.
F. C. Shaver.....	Field Services Supvr.
G. J. Haarmeyer.....	Fish & Wildlife Supvr.
D. R. Potvin.....	Forests Management Supvr.
M. K. Smith.....	Lands Supvr.
D. H. Brunette.....	Parks Supvr.

NORTH BAY DISTRICT

Box 3070, 222 McIntyre St. W., The Trust Building
North Bay, Ont. P1B 8K7
Phone (705) 474-5550

J. R. Morin.....	District Manager
G. E. Lacelle.....	District Admin. Supvr.
M. R. Wolfe.....	Fish & Wildlife Supvr.
D. E. Honeyborne.....	Forests Management Supvr.
R. V. Coulombe.....	Lands Management Supvr.
H. J. Edmundson.....	Parks Supvr.

BLIND RIVER DISTRICT

Box 190, 62 Queen St., Blind River, Ont. P0R 1B0
Phone (705) 356-2234

R. Lessard.....	District Manager
F. McWhinnie.....	Administration Supvr.
S. B. Woodside.....	Fish & Wildlife Supvr.
C. F. Husk.....	Forests Management Supvr.
R. H. Wood.....	Lands Supvr.

WAWA DISTRICT

Box 1160, 22 Mission Road, Wawa, Ont. POS 1K0
Phone (705) 856-2396

C. D. Clark.....	District Manager
Mrs. J. M. Kern.....	District Admin. Supvr.
A. J. Bull.....	Field Services Supvr.
E. Armstrong.....	Fish & Wildlife Supvr.
C. K. Sumi.....	Forests Management Supvr.
E. V. Uhler.....	Lands Supvr.
A. L. Robinson.....	Parks Supvr.

ESPANOLA DISTRICT

Box 1340, 148 Fleming St., Espanola, Ont. POP 1C0
 Phone (705) 869-1330

E. N. Arbuckle.....	District Manager
Mrs S. Catling.....	District Admin. Supvr.
D. R. Hughson.....	Outdoor Recreation Supvr.
H. A. Liljalehto.....	Forests Management Supvr.
D. C. Carnochan.....	Lands Management Supvr.

TEMAGAMI DISTRICT

Box 38, Lakeshore Dr., Temagami, Ont. POH 2H0
 Phone (705) 569-3622

J. L. Hamill.....	District Manager
C. M. Hamilton.....	District Admin. Supvr.
B. A. Hillier.....	Forests Management Supvr.
R. B. Sinclair.....	Lands Supvr.
S. T. Flemming.....	Outdoor Recreation Supvr.

ALGONQUIN REGION

Box 9000, Brendale Square, Huntsville, Ont. POA 1K0
Phone (705) 789-9611

R. M. Christie.....	Regional Director
J. H. Lever.....	Deputy Reg. Director
J. Carswell.....	Admin. Co-ordinator
P. A. Smith.....	Biologist
A. P. Stephen.....	Engineer
B. Petman.....	Program Manager - Fire Management
T. E. Dodds.....	Forester
J. A. van der Meer.....	Mines & Lands Co-ordinator
G. M. Moroz.....	Parks & Recreation Co-ordinator

Pembroke Trout Rearing Station (Privatized - Envirocon Ltd.)
Phone (613) 687-5935

Skeleton Lake Fish Hatchery
C. Core..... Phone (705) 769-3731

Haliburton-Hastings Fisheries
Assessment Unit..... Phone (613) 332-3940

Algonquin Park Fisheries
Assessment Unit..... Phone (705) 637-2780

Fire Management - Inside Fire Region
Fire Operations Managers

J. McCabe.....	Parry Sound.....	(705) 746-4201
T. Russell.....	Minden.....	(705) 475-2107
B. Gagnon.....	Pembroke.....	(613) 732-3661
P. Gallagher..	Tweed.....	(613) 478-2330

PARRY SOUND DISTRICT

4 Miller St, Parry Sound, Ont. P2A 1S8
Phone (705) 746-4201

W. J. Lovering.....	District Manager
F. Buchan.....	Administration & Support Services
J. F. Gardner.....	Fish & Wildlife
G. C. Felton.....	Forests
J. A. Shalla.....	Parks
L. A. Connelly.....	Lands & Waters

BANCROFT DISTRICT

Box 500, Bancroft, Ont. K0L 1C0
Phone (613) 332-3940

D. J. Vance.....	District Manager
M. F. Rush.....	Support Services & Park Supervisor
V. B. Collins.....	Fish & Wildlife
F. J. Walker.....	Forests
D. W. McLennan.....	Petroglyphs Park
O. J. Fleming.....	Lands
H. Meyn.....	Geologist

ALGONQUIN PARK DISTRICT

Box 219, Whitney, Ont. K0J 2M0
Phone(705) 637-2780

G. R. Whitney.....	Park Supt./District Manager
E. A. Dayment.....	Administration
D. F. George.....	Forests
J. E. Elliot.....	Lands
L. L. Powell.....	Outdoor Recreation (Parks, F&W)
B. A. Norris.....	Field Services

PEMBROKE DISTRICT

Box 220, Riverside Drive, Pembroke, Ont. K8A 6X4
Phone (613) 732-3661

L. J. Haas.....	District Manager
A. H. Plummer.....	Administration & Support Services
A. E. Armstrong.....	Fish & Wildlife
R. C. A. Gilbert.....	Forests
G. D. Yarranton.....	Lands & Mines
E. N. McKenzie.....	Parks

BRACEBRIDGE DISTRICT

Box 1138, Bracebridge, Ont. POB 1C0
Phone (705) 645-8747

H. P. Endress.....	District Manager
Vacant.....	Administration & Support Services
D. M. Brooks.....	Fish & Wildlife
G. K. Schultz.....	Forests
J. A. Bryant.....	Lands
R. G. Ellis.....	Parks

MINDEN DISTRICT

Minden, Ont. KOM 2K0
Phone (705) 286-1521

D. D. White.....	District Manager
R. E. Raby.....	Administration & Support Services
D. G. Atkinson.....	Fish & Wildlife
B. G. Cross.....	Forests
J. E. Dewey.....	Lands, Parks & Services

THE LESLIE M. FROST NATURAL RESOURCES CENTRE

Dorset, Ont. POA 1E0
Phone (705) 766-2451

D. D. White.....	Director
R. W. Stewart.....	Plan & Management Supt.
W. A. Chambers.....	Operations Supt.
D. R. Elliot.....	Field Operations Suprv.
T. G. Wright.....	Food Services
H. J. Barnhart.....	Maintenance Foreman

Specialists:

A. S. Corlett.....	Forestry
M. E. Buss.....	Fish & Wildlife
C. K. Macdonald.....	Recreation
R. R. Keevil (Acting).....	Lands
S. A. Williams.....	Visitor Services

GRAVENHUST TECHNOLOGY DEVELOPMENT CENTRE
Box 820, Gravenhurst, Ont. POC 1G0

D. G. Watton.....	Manager
-------------------	---------

EASTERN REGION

Provincial Government Building,
Concession Road, Kemptville, Ont. K0G 1J0
Phone (613) 258-3413

J. R. Oatway.....	Regional Director
D. E. Gage.....	Deputy Reg. Director, Resources
J. S. Anderson.....	Deputy Reg. Director, Services
W. B. Bowles.....	Admin. Co-ordinator
(Vacant).....	Biologist
J. D. Murray.....	Lands & Cons. Auth. Prg. Supervisor
W. P. Barber.....	Parks & Rec. Co-ordinator
J. R. Stork.....	Engineer
T. W. Fletcher.....	Mines Co-ordinator
P. E. Anslow.....	Forester
D. G. Kennedy.....	Fire Management Co-ordinator
M. A. Hart.....	Personnel Services Co-ordinator

Codrington Fish Hatchery

A. H. Draves.....	Phone (613) 475-2512
-------------------	----------------------

White Lake Fish Hatchery

K. Steele.....	Phone (613) 335-2115
----------------	----------------------

Westport Fish Hatchery

G. E. Raine.....	Phone (613) 273-2106
------------------	----------------------

G. Howard Ferguson Forest Station

A. J. Campbell.....	Phone (613) 258-3413
---------------------	----------------------

TWEED DISTRICT

Metcalf Street, Tweed, Ont. K0K 3J0
Phone (613) 478-2330

R. N. Kervin.....	District Manager
G. J. O'Hearn.....	Administration & Field Services
M. J. Williams.....	Lands
J. C. Williamson.....	Outdoor Rec.
Dr. P. W. Kingston.....	Geologist
A. J. Denys.....	Forests

NAPANEE DISTRICT

1 Richmond Blvd., Napanee, Ont. K7R 3S3
Phone (613) 354-2173

R. W. Beecher.....	District Manager
R. A. Armstrong.....	Finance, Administration Services & Fire
R. W. Baldwin.....	Fish & Wildlife
R. Griffiths.....	Lands
J. C. Matheson.....	Parks
S. Thatcher.....	Mineral Resources

BROCKVILLE DISTRICT

Box 605, Oxford Ave., Brockville, Ont. K6V 5Y8
Phone (613) 342-8524

W. V. Hardy.....	District Manager
D. G. Gilmer.....	Administration
G. L. Penney.....	Fish & Wildlife
W. M. Fasken.....	Forests
G. Tabobondune.....	Lands & Field Services
B. A. Barkley.....	Fast Growing Hardwoods Group
S. Thatcher (at Napanee).....	Mineral Resources

CARLETON PLACE DISTRICT

10 Findlay Ave., Carleton Place, Ont. K7C 3Z6
Phone (613) 257-5735

M. S. Millar.....	District Manager
G. N. Sanderson.....	Administration & Field Services
J. D. McCreedy.....	Forests
R. N. Jones.....	Fish & Wildlife
R. M. Rogers.....	Lands
M. A. MacDonald.....	Mineral Resources
K. J. Schonauer.....	Parks

CORNWALL DISTRICT

113 Amelia St. Cornwall, Ont. K6H 5V7
Phone (613) 933-1774

R. J. Cleroux.....	District Manager
W. J. Humphrys.....	Administration
E. McGregor.....	Fish & Wildlife
B. W. Warwick.....	Forest Management
K. E. Green.....	Parks & Recreation
B. W. McCue.....	Lands & Mineral Resources

CENTRAL REGION

10670 Yonge St., Richmond Hill, Ont. L4C 3C9
Phone (416) 884-9203

M. B. Fordyce.....	Regional Director.....	295
A. D. Latornell.....	Deputy Reg. Director.....	297
H. Tjoelker.....	A/Deputy Reg. Director.....	290
R. M. Clouthier.....	A/Administrative Co-ordinator.....	208
J. B. Dawson.....	Biologist.....	247
J. J. McFadden.....	Cons. Auth. Co-ordinator.....	232
E. L. Borczon.....	Forester.....	289
M. Narain.....	Geologist.....	205
T. M. Kurtz.....	Service Engineer.....	234
J. T. Griffin.....	Parks Rec. Co-ordinator.....	299
M. A. Groneng.....	Lands & Mines Co-ordinator.....	216
D. P. Kolenosky.....	Systems Co-ordinator.....	209

Midhurst Forest Station, Midhurst

K. H. Reese..... Phone (705) 728-2900

Orono Forest Station, Orono

G. R. McLeod..... Phone (416) 983-9147

Ontario Tree Seed Plant, Angus

B. D. Swaile..... Phone (705) 424-5311

Deer Lake Fish Hatchery, R.R.#1, Havelock

G. T. Cation..... Phone (705) 778-3391

Ringwood Fish Hatchery

B. Marchant..... Phone (416) 640-6204

MAPLE DISTRICT

Maple, Ont. L0J 1E0

Phone (416) 832-2761

I. B. Earl.....	District Manager.....	203
W. B. Pottelberg.....	Support Services.....	300
R. L. Desjardine.....	Outdoor Recreation.....	211
Si Dae Kim.....	Forests.....	224
B. Anderson.....	Lands & Mineral Resources.....	208

LINDSAY DISTRICT

322 Kent St. West, Lindsay, Ont. K9V 4T7
 Phone (705) 324-6121

W. H. Forman.....	District Manager
A. V. Kaufman.....	Support Services
P. Drysdale.....	Fish & Wildlife
G. Higham.....	Forests
L. C. Selby.....	Lands & Minerals
G. Scott.....	Parks

HURONIA DISTRICT

Midhurst, Ont. L0L 1X0
 Phone (705) 728-2900

W. D. Mansell.....	District Manager
D. H. Poff.....	Support Services
A. W. Smith.....	Fish & Wildlife
R. O. Brandes.....	Forests
D. R. MacArthur.....	Services
J. R. Winters.....	Parks

CAMBRIDGE DISTRICT

Box 2186, Cambridge, Ont. N3C 2W1
 Phone (519) 658-9355

W. R. Catton.....	District Manager
B. J. DeGunst.....	Support Services
C. Selby.....	Fish & Wildlife
S. Yorgan.....	Forest Management
B. L. Houck.....	Parks
D. A. Routly.....	Lands & Minerals

NIAGARA DISTRICT

Box 1070, Hwy. 20, Fonthill, Ont. L0S 1E0
 Phone (416) 892-2656

J. E. Dickenson.....	District Manager
A. J. Vos.....	Support Services
E. A. Kraker.....	Forests
D. Euler.....	Outdoor Rec.
J. Z. Fraser.....	Lands & Minerals

SOUTHWESTERN REGION

659 Exeter Rd., Box 5463, London, Ont. N6A 4L6

Regional Director.....	D. W. Schafer.....	(519) 661-2743
Deputy Reg. Director.....	A. J. Stewart.....	(519) 661-2734
Secretary.....	.....	(519) 661-2775
General Inquiry.....	.....	(519) 661-2800
Telex.....	.....	06-47248

Co-ordinators

Finance and Administration.....	D. W. Munch.....	(519) 661-2752
Fisheries.....	H. A. Orr.....	(519) 661-2739
Conservation Authorities.....	R. J. McClure.....	(519) 661-2736
Forestry and Wildlife.....	J. A. Fingland.....	(519) 661-2741
Parks and Recreation.....	G. E. Martelle.....	(519) 661-2742
Enforcement.....	R. P. Wells.....	(519) 661-2740
Personnel.....	D. C. Watt.....	(519) 661-2733

Petroleum Resources		
Provincial Petroleum Supervisor		(519) 661-2711

Petroleum Resources Laboratory		
Chief Geologist.....	.....	(519) 661-2765

Planning & Design		
Regional Engineer.....	.....	(519) 661-2722

CHATHAM DISTRICT

Box 1168, 435 Grand Avenue, Chatham, Ont. N7M 5L8
Phone (519) 354-7340

W. L. McNab.....	District Manager
B. Hall.....	Support Services
H. Manson.....	Fish & Wildlife
K. Yaraskavitch.....	Forests, Mineral Resources
A. D. Carr.....	Parks
H. W. Rowe.....	Extension Services

SIMCOE DISTRICT

548 Queensway West, Simcoe, Ont. N3Y 4T2
Phone (519) 426-7650

M. F. McKenzie.....	District Manager
A. McGarrity.....	Support Services
J. M. Collins.....	Resource Planning
R. Manley.....	Operations
W. L. Edwards.....	Extension Services

OWEN SOUND DISTRICT

611 Ninth Avenue East, Owen Sound, Ont. N4K 3E4
Phone (519) 376-3860

R. W. Tippet.....	District Manager
M. Gobeil.....	Support Services
S. A. Monroe.....	Lake Huron Fishery Operations Co-ordinator
W. J. Lambie.....	Resource Planning
P. H. Baxter.....	Operations
K. Hawthorne.....	Extension Services
E. G. Walker.....	Reg. Fire Co-ordinator

WINGHAM DISTRICT

R.R. #5, Wingham, Ont. NOG 2W0
Phone (519) 357-3131

A. M. Houser.....	District Manager
O. E. Crawford.....	Support Services
W. A. Creighton.....	Resource Planning
H. R. Lancaster.....	Operations
T. R. Carter.....	Mineral Resources
R. H. Spurr.....	Extension Services

AYLMER DISTRICT

353 Talbot St. W., Aylmer, Ont. N5H 2S8
Phone (519) 773-9241

M. G. Lewis.....	District Manager
D. L. Clarke.....	Support Services
G. R. Austin.....	Operations
W. C. Gilmore.....	Resource Planning
D. G. Ward.....	Extension Services
J. W. E. Lau.....	Mineral Resources

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Statistics 1986



Ministry of
Natural
Resources

Hon. Vincent G. Kerrio
Minister
Mary Mogford
Deputy Minister



Statistics

1986

A statistical supplement to the Annual
Report of the Minister of Natural
Resources for the year ending
March 31, 1986.

\$2.00



Ontario

Ministry of
Natural
Resources

Hon. Vincent G. Kerrio
Minister

Mary Mogford
Deputy Minister

Statistical Reports

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8	Forest Resources Branch
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MINISTRY OF NATURAL RESOURCES

Main Office in Whitney Block, Parliament Buildings, Toronto, Ontario M7A 1W3

Hon. Vincent Kerrio.....	Minister of Natural Resources and Energy
Mary Mogford.....	Deputy Minister
R. M. Monzon.....	Assistant Deputy Minister, Administration
G. A. McCormack.....	Assistant Deputy Minister, Northern Ontario, Box 5000, 435 James St. South, Thunder Bay 'F', Ontario P7C 5G6 Northwestern Region North Central Region Northern Region Northeastern Region Aviation and Fire Management Centre
R. J. Burgar.....	Assistant Deputy Minister, Southern Ontario. Maple, Ontario L0J 1E0 Algonquin region Eastern Region Central Region Southwestern Region

OFFICE OF DEPUTY MINISTER

Room W-6320, Main Office, Telephone (416) 965-2704

Deputy Minister.....	Mary Mogford.....	W-6320.....2704
Administrative Assistant.....	Mrs. I. Hart.....	W-6320.....5873
EXECUTIVE CO-ORDINATORS		
Forest Resources Group.....	K. A. Armson.....	W-3624.....4319
Outdoor Recreation Group.....	T. J. Millard.....	W-2341.....5661
Lands and Waters Group.....	M. R. Garrett.....	W-6626.....6046
POLICY AND PLANNING SECRETARIAT		
Director.....	L. A. Douglas.....	W-6450.....8422
Secretary.....	Mrs. M. Forbes.....	W-6450.....8422
Policy Officer.....	Ms. R. Booth-Horst....	W-6453.....6712
	E. E. Multamaki.....	W-6452.....6712
	M. D. Garscadden.....	W-6445.....6712
	R. P. Milligan.....	W-6455.....6371
Policy Officer		
Northern Ontario.....	C. D. Clark.....	(807) 475-1271
Policy Officer		
Southern Ontario.....	Robert J. McClure.....	832-2761
Strategic Planning and		
Support Officer.....	J. Don Ross.....	W-6446...5-6371
Special Projects Officer.....	James M. Kearns.....	W-6449...5-6371
Manager of Planning.....	Gord K. Rodgers.....	W-6447...5-2899
Resource Management		
Planning Specialist.....	John C. Slot.....	W-6451...5-2899
Co-ordinator Plan Input		
and Review.....	Ms. P. Hardy.....	W-6448...5-2899
Environmental Assessment		
Co-ordinator.....	R. D. Laprairie.....	W-6441...5-2899
Environmental Planner		
(Forest Resources).....	Albert Bisschop.....	W-6441...5-2899
Environmental Planner		
(Parks).....	John R. Pickering.....	W-6454...5-2899
Environmental Planner.....	Alan Parkinson.....	W-6441...5-2899

MINISTRY REGIONS AND DISTRICTS

Areas in Square Kilometres *

NORTHWESTERN REGION

Dryden	11,961	
Fort Frances	10,847	
Ignace	11,463	
Kenora	14,188	
Red Lake	64,105	
Sioux Lookout	<u>112,097</u>	<u>224,661</u>

Pt. Rainy Lake	1,222	
Pt. Lake of the Woods	<u>2,427</u>	<u>3,649</u>

Total, Region		<u>228,310</u>
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NORTHERN REGION

Chapleau	23,602	
Cochrane	30,715	
Gogama	7,752	
Hearst	25,245	
Kapuskasing	21,225	
Kirkland Lake	13,312	
Moosonee	215,741	
Timmins	<u>7,899</u>	<u>345,491</u>

Pt. Lake Abitibi	<u>790</u>	<u>790</u>
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Total, Region		<u>346,281</u>
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ALGONQUIN REGION

Algonquin Park	9,376	
Bancroft	4,239	
Bracebridge	6,454	
Minden	4,745	
Parry Sound	7,187	
Pembroke	<u>7,306</u>	<u>39,307</u>

Pt. Georgian Bay	<u>3,875</u>	<u>3,875</u>
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Total, Region		<u>43,182</u>
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SOUTHWESTERN REGION

Aylmer	6,731	
Chatham	7,389	
Owen Sound	7,817	
Simcoe	2,818	
Wingham	<u>6,889</u>	31,644

Pt. Lake Huron and Lake Erie	30,950	
Pt. Lake St. Clair	<u>673</u>	<u>31,624</u>

Total, Region		<u>62,268</u>
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NORTH CENTRAL REGION

Atikokan	11,321	
Geraldton	112,784	
Nipigon	25,574	
Terrace Bay	12,673	
Thunder Bay	<u>28,451</u>	<u>190,803</u>

Lake Nipigon	5,006	
Pt. Lake Superior	16,017	<u>21,023</u>

Total, Region		<u>211,826</u>
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NORTHEASTERN REGION

Blind River	9,516	
Espanola	9,523	
North Bay	10,668	
Sault Ste. Marie	7,912	
Sudbury	12,725	
Temagami	6,856	
Wawa	<u>22,535</u>	79,735

Pt. Lake Huron and Lake Superior	25,298	
Lake Nipissing	816	
Lake Wahnapiatae	<u>145</u>	<u>26,259</u>

Total, Region		<u>105,994</u>
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EASTERN REGION

Brockville	3,496	
Carleton Place	6,277	
Cornwall	5,594	
Napanee	6,537	
Tweed	<u>6,605</u>	<u>28,509</u>

Pt. Lake Ontario	4,333	<u>4,333</u>
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Total, Region		<u>32,842</u>
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CENTRAL REGION

Cambridge	7,141	
Huron	6,550	
Lindsay	6,856	
Maple	4,812	
Niagara	<u>2,670</u>	<u>28,029</u>

Pt. Lake Ontario and Lake Erie	8,109	
Lake Simcoe	<u>741</u>	<u>8,850</u>

Total, Region		<u>36,879</u>
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TOTALS

47 Districts	968,179
12 Lakes	<u>100,403</u>

Area of Ontario	1,068,582
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* August 19, 1980
Surveys and Mapping Branch

FOREST RESOURCES GROUP

Room W-3623, Main Office

Telephone (416) 965-2785

Executive Co-ordinator.....	K. A. Armson.....	W-3624...5-4319
Secretary.....	Miss O. Andrews...	W-3624...5-8538
Co-ordinator, Private land Forestry...	W. K. Fullerton...	W-3621...5-3040
Chief Forest Economist.....	Dr. F. Miller.....	W-3627...5-2785

FOREST RESOURCES BRANCH

Room W-3640, Main Office

Telephone (416) 965-2575

Director.....	L. Lambert.....	W-3646...5-2787
Secretary.....	G. Peters.....	W-3646...5-2575

FOREST PRODUCTION & CONTROL SECTION

Section Manager.....	J. R. Cary.....	W-3649...5-2575
Section Secretary.....	Mrs. M. Fleming...	W-3640...5-2575
Tree Seed & Forest Genetics Unit....	Ms. R. M. Rauter..	W-3634...3-1334
Tree Improvement Silviculturist.....	Ms C. Graham.....	W-3632...3-1334
Geneticist.....	J. V. Hood.....	W-3632...3-1334
Stock Planting Production Unit Spvr.	R. J. Reffle.....	W-3655...5-2575
Stock Production Analyst.....	A. Citro.....	W-3633...3-1334
Soil & Plant Analyst.....	V. Sadreika.....	W-3653...5-2575
Tree Distribution Co-ordinator....	H. H. Tiemann.....	W-3654...5-2575
Silvicultural Data Controller.....	R. K. Crawford....	W-3648...5-2575
Professional Development		
Co-ordinator.....	W. Vonk.....	W-3621...5-2785
Technical Development Co-ordinator	Dr. D.C.F. Fayle..	W-3631...5-2785

STRATEGIC TARGETS & PROGRAM CONTROL SECTION

Section Manager.....	D. W. McGowan.....	W-3643...5-0378
Forest Production Analyst.....	J. A. Cooper.....	W-3650...5-2575

PRIVATE LAND FORESTRY SECTION

Section Manager.....	R. N. Staley.....	W-3630...5-2785
Agreement Forest Administrator.....	Mrs. J. Brown.....	W-3629...5-2785
Woodlands Improvement Clerk.....	P. B. Rutherford...	W-3645...5-0378

PEST CONTROL SECTION

Section Manager.....	B. H. McGauley.....	Maple..832-2761
Provincial Entomologist.....	J. J. Churcher.....	Maple..832-2761
Provincial Pathologist.....	Dr. J. A. Juzwik...	Maple..832-2761
Provincial Herbicide Specialist.....	Dr. R. A. Campbell.	Maple..832-2761
Provincial Applications Specialist..	S. A. Nicholson....	Maple..832-2761

CANADA-ONTARIO FOREST RESOURCE

DEVELOPMENT AGREEMENT

Administrator.....	Ms. A. L. Wells..863 Bay St.	5-2073
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ONTARIO TREE IMPROVEMENT AND FOREST
BIOMASS INSTITUTE (OTIFBI)

Maple, Ontario L0J 1E0 Telephone (416) 832-2761

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Executive Officer.....	D. Morgan.....	832-2761
Technology Transfer Specialist.....	D. Bates.....	832-2761
Scientific Photographer.....	J. Robinson.....	832-2761

TREE IMPROVEMENT AND BIOMASS SECTION

Principal Scientist	Dr. G. Buchert.....	832-2761
Research Scientist Tree Breeding		
Hard Pine.....	Dr. G. Buchert.....	832-2761
Research Scientist		
Genecology Spruce.....	Dr. A. G. Gordon... Sault Ste. Marie	(705) 949-9461

Forest Biomass Unit Leader.....	H. W. Anderson.....	832-2761
Research Scientist Upland		
Silviculture.....	P. Jaciw.....	832-2761
Research Scientist, Biotechnology.....	Dr. R. H. Ho.....	832-2761
Research Scientist, Tree Seed.....	D. A. Skeates.....	832-2761
Research Scientist, Aspen		
Silviculture.....	D. Weingartner.....	Thunder Bay (807) 767-1607

Nursery/Greenhouse Arboreta

Unit Leader.....	K. Bennett.....	832-2761
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FOREST ECOLOGY AND SILVICULTURE SECTION

Principal Scientist.....	Dr. D. Burger.....	832-2761
Research Scientist, Boreal		
Mixed Woods.....	G. B. MacDonald.....	Thunder Bay (807) 767-1607
Biomath/Program Analyst.....	R. Forslund.....	Thunder Bay (807) 767-1607
Silviculture and Tree Biology		
Unit Leader, Tree Physiologist	Dr. C. Glerum.....	832-2761
Tree Physiology Lab Scientist.....	Y. T. Kim.....	832-2761
Tree Physiology Lab Techologist.....	Dr. C. P. Chen.....	832-2761
Research Scientist, Plant Stock.....	S. J. Colombo.....	832-2761
Research Scientist, Artificial		
Regeneration - Boreal.....	Dr. K. M. McClain.....	Thunder Bay (807) 767-1607
Silviculture Specialist.....	G. Stroempl.....	832-2761
Manager, Midhurst Research Unit.....	R. Hutchison.....	Midhurst (705) 737-5510

USE OF NURSERY STOCK IN YEAR ENDING MARCH 31, 1986

Use	Bare Root Ministry	Container Ministry	Contract	Total
Crown Land and Agreement				
Forest	47,215,560	8,750,363	70,483,959	126,449,882
W.I.A.	7,789,174	-	-	7,789,174
Other Private Land	14,525,898	-	-	14,525,898
Education or Science	812,320	-	-	812,320
Miscellaneous	-	-	-	-
TOTAL	70,342,952	8,750,363	70,483,959	149,577,274

FOREST TREES PRODUCED AND PURCHASED BY THE MINISTRY

Year	Bare Root Ministry	Container Ministry	Contract	Total
1975	59,794,450	3,148,406	-	62,942,856
1976	50,944,733	5,346,866	-	56,291,599
1977	45,981,122	4,291,764	-	50,272,886
1978	48,291,842	5,461,375	-	53,753,217
1979	52,928,125	5,487,210	-	58,415,335
1980	61,453,461	7,944,817	-	69,398,278
1981	65,360,243	10,496,839	-	75,857,082
1982	69,448,150	13,950,538	-	83,398,688
1983	63,660,427	10,999,088	5,466,142	80,125,657
1984	67,472,981	14,743,138	25,256,448	107,472,567
1985	52,183,189	13,964,217	62,084,413	128,231,819
1986	70,342,952	8,750,363	70,483,959	149,577,274

PLANTING STOCK DISTRIBUTION

Bare Root Nursery Stock	
conifers	67,001,439
hardwoods	<u>3,341,513</u>
Total	70,342,952
Container Stock (conifers)	
ministry facilities	8,750,363
contract facilities	<u>70,483,959</u>
Total	79,234,322
GRAND TOTAL	<u>149,577,274</u>

TREE PRODUCTION BY SPECIES

Number of trees in years ending March 31

Species	1982	1983	1984	1985	1986
White Spruce	16,394,578	16,396,972	15,037,822	11,302,704	17,113,719
Black Spruce	17,155,688	18,847,802	35,772,366	48,298,559	57,819,505
Red Pine	7,493,071	6,707,858	7,125,973	4,771,746	6,087,527
Jack Pine	25,830,821	21,744,405	33,456,807	45,991,911	50,190,145
White Pine	6,451,959	7,595,781	7,575,437	9,809,085	9,119,240
White Cedar	2,806,775	2,984,424	2,355,744	1,788,336	1,253,611
Scotch Pine	1,545,425	906,075	1,874,825	2,346,725	2,831,925
Silver Maple	240,785	502,402	413,503	594,032	329,217
Norway Spruce	1,093,919	1,021,589	873,810	487,910	1,515,633
Carolina Poplar	532,351	404,549	404,128	302,230	463,823
Black Walnut	364,000	333,125	330,585	319,425	330,650
White Ash	283,281	57,218	100,099	71,706	382,825
European Larch	275,202	164,918	123,540	59,925	78,170
Yellow Birch	116,400	20,000	4,115	-	160
Red Oak	316,191	178,717	179,827	42,858	189,119
Black Locust	164,475	217,950	158,875	67,640	197,575
Tamarack	309,506	434,983	163,826	260,560	136,673
Hemlock	272	14,725	17,264	23,600	25
Cottonwood	-	-	-	-	-
Hybrid Poplar					
Rooted	108,484	53,042	52,504	26,730	20,036
Unrooted	1,061,811	1,079,038	954,520	935,081	1,077,430
Japanese Larch	293,631	129,350	162,350	102,350	31,250
Aspen, unrooted	-	7,880	-	-	-
Other Species	560,063	322,854	334,647	628,706	409,016
TOTALS	83,398,688	80,125,657	107,472,567	128,231,819	149,577,274

TREES SUPPLIED FOR PLANTING ON PRIVATE LANDS

in year ending March 31

County, District or Regional Municipality	1982	1983	1984	1985	1986
Algoma	190,825	251,205	373,630	255,078	210,115
Brant	129,055	122,125	169,600	144,345	191,400
Bruce	278,020	138,851	193,992	176,485	225,790
Cochrane	1,072,250	536,825	792,140	257,925	23,625
Dufferin	470,585	307,250	368,495	390,450	563,555
Dundas	68,475	73,972	121,360	75,901	295,890
Durham*	538,150	487,200	531,925	489,175	599,144
Elgin	209,899	189,162	197,437	216,217	241,585
Essex	188,513	199,307	225,781	138,837	268,897
Frontenac	193,486	112,800	115,110	152,325	230,250
Glengarry	166,500	136,350	74,800	129,550	141,500
Grey	503,740	487,980	568,150	529,653	724,550
Haldimand-Norfolk	485,492	520,725	468,362	488,959	643,780
Haliburton	33,800	26,800	23,700	36,850	36,000
Halton	137,575	105,385	182,883	126,515	142,000
Hastings	317,973	178,422	360,897	227,013	357,350
Huron	198,264	147,279	244,654	274,237	164,594
Kenora	189,175	519,125	529,050	264,375	310,775
Kent	233,185	320,655	270,300	157,050	185,550
Lambton	239,577	174,693	150,309	94,571	261,774
Lanark	203,900	155,000	158,850	143,700	167,550
Leeds & Grenville	333,375	249,795	328,626	266,150	275,777
Lennox & Addington	128,350	154,095	109,600	69,700	187,950
Manitoulin	15,100	16,350	20,125	10,600	15,075
Middlesex	433,402	440,800	480,350	329,960	557,295
Muskoka	68,150	57,845	56,459	154,650	121,050
Niagara	365,481	211,336	310,746	195,152	367,221
Nipissing	60,770	75,455	293,100	187,757	292,637
Northumberland*	530,657	423,148	387,473	266,280	321,995
Ontario*	2,610	1,700	-	570	-
Ottawa-Carleton	252,310	160,530	162,805	197,155	262,665
Oxford	197,278	175,996	150,975	136,680	258,540
Parry Sound	188,650	50,625	155,225	64,035	112,200
Peel	265,910	188,300	192,635	292,235	180,070

County, District or Regional Municipality	1982	1983	1984	1985	1986
Perth	135,535	169,190	114,115	93,650	155,100
Peterborough	133,920	148,111	217,215	174,562	233,655
Prescott	142,825	250,400	131,150	120,700	100,235
Prince Edward	71,650	72,100	166,150	173,700	185,600
Rainy River	101,750	13,650	67,940	382,900	186,467
Renfrew	229,550	282,925	595,720	207,750	373,420
Russell	174,655	128,150	133,855	144,732	221,223
Simcoe	1,143,650	1,006,995	1,096,576	1,061,074	1,300,620
Stormont	50,100	60,500	93,095	182,290	67,700
Sudbury	415,335	590,029	490,255	358,807	512,853
Thunder Bay	113,325	62,975	206,150	241,575	230,520
Timiskaming	12,250	23,400	154,950	43,850	30,125
Victoria	278,930	204,725	251,689	200,502	260,079
Waterloo	111,100	86,575	190,075	139,425	111,521
Wellington	709,700	798,607	675,938	938,051	847,381
Wentworth	324,423	299,198	350,579	244,825	266,840
York	410,582	438,280	478,705	471,518	504,410
Durham Regional Municipality	150	-	400	-	-

TOTALS

1982	13,449,912#
1983	12,032,896#
1984	14,184,101#
1985	12,120,046#
1986	14,525,898#

Excluding W.I.A.

* Totals do not reflect formation of the Regional Municipality of Durham

FOREST AREAS MANAGED BY THE MINISTER

in hectares at March 31, 1985

Agreement Holders	Term of Agreement	Released 1985-86	Added 1985-86	Total
GOVERNMENT OF CANADA				
National Capital Commission	Apr. 1961 - Mar. 2011	-	-	1,704.13
21 CONSERVATION AUTHORITIES				
Ausable Bayfield	Jan. 1983 - Mar. 2004			1,905.26
Cataraqui Region	Apr. 1971 - Mar. 1996			342.31
Catfish Creek	Apr. 1962 - Mar. 2002			254.55
Crowe Valley	Terminated Nov. 1985	80.94		
Ganaraska	Apr. 1977 - Mar. 2002			3,496.18
Grand River	Apr. 1961 - Mar. 2000			1,657.72
Grey Sauble	Jan. 1985 - Mar. 2005			4,495.55
Lakehead Region	May 1958 - Apr. 2008			670.85
Long Point Region	Apr. 1982 - Mar. 2000		19.22	2,611.55
* Lower Thames Valley	Apr. 1984 - Mar. 2004			121.41
Maitland Valley	Apr. 1955 - Mar. 2005			343.58
Metropolitan Toronto & Region	Apr. 1975 - Mar. 2000			785.38
Moir River	Apr. 1978 - Mar. 2000	40.47		6,766.66
Napanee Region	Oct. 1954 - Oct. 2004			2,732.44
Niagara Peninsula	June 1963 - Mar. 2003		20.25	95.52
Otonabee Region	Apr. 1976 - Mar. 2002			1,465.04
Raisin Region	Apr. 1971 - Mar. 2001			137.59
* Saugeen Valley	June 1985 - May 2005			5,285.39
South Nation River	Apr. 1975 - Mar. 2000		30.35	3,103.18
* St. Clair Region	May 1985 - Apr. 2005			60.70
Upper Thames River	Apr. 1961 - Mar. 2001			1,363.29
Sub-total		121.41	69.82	37,694.15

* Replacement Agreement

Agreement Holders	Term of Agreement	Released 1985-86	Added 1985-86	Total
<hr/>				
8 TOWNSHIPS				
Charlottenburgh	Apr. 1975 - Mar. 1995			77.70
Cramahe	Apr. 1963 - Mar. 2003			65.56
Cumberland	July 1980 - June 2030			371.68
Darlington	Apr. 1971 - Mar. 1991			56.66
Machar	Sept 1963 - Aug. 1993			36.42
Mosa	Apr. 1963 - Mar. 2003			58.27
West Carleton	Apr. 1983 - Mar. 2003			174.34
Williamsburg	Apr. 1962 - Mar. 2002			161.87
Sub-total				1,002.50

Agreement Holder	Term of Agreement	Released 1985-86	Added 1985-86	Total
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19 COUNTIES				
Brant	Apr. 1960 - Mar. 2000			40.19
Bruce	Apr. 1962 - Mar. 2002			6,106.03
Dufferin	Apr. 1971 - Mar. 1991			1,019.21
Grey	Apr. 1960 - Mar. 2000			3,481.19
Huron	Apr. 1960 - Mar. 2000			662.30
Kent	Apr. 1960 - Mar. 2000			30.51
Lanark	Apr. 1980 - Mar. 2000		259.81	4,066.81
Leeds & Grenville	Apr. 1975 - Mar. 1995			5,802.18
Lennox & Addington	Apr. 1960 - Mar. 2000			473.04
Middlesex	Apr. 1960 - Mar. 2000			980.96
Northumberland	Apr. 1981 - Mar. 2001			2,603.98
Oxford	Apr. 1961 - Mar. 2000			342.06
Peterborough	Apr. 1981 - Mar. 2001			80.94
Prescott & Russell	Apr. 1983 - Mar. 2003		20.23	10,601.23
Renfrew	Apr. 1960 - Mar. 2000			6,497.56
Simcoe	Apr. 1960 - Mar. 2000	.11	42.89	10,630.37
Stormont, Dundas & Glengarry	Apr. 1975 - Mar. 2000		40.47	3,233.63
Victoria	Nov. 1976 - Mar. 2000	.40		3,794.31
Wellington	Apr. 1963 - Mar. 2003			521.44
Sub-total		.51	363.40	60,967.94

Agreement Holders	Term of Agreement	Released 1985-86	Added 1985-86	Total
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5 REGIONAL MUNICIPALITIES

Durham	May 1980 - Apr. 2000			591.05
Halton	Apr. 1976 - Mar. 2000	.15		632.14
Ottawa-Carleton	Apr. 1974 - Mar. 2004		117.36	5,621.70
Waterloo	Apr. 1976 - Mar. 2001			304.54
York	Apr. 1977 - Mar. 2027			2,030.48

Sub-Total

.15 117.36 9,179.91

INDUSTRY

Domtar Inc	Apr. 1974 - Mar. 1999		522.29	1,422.31
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TOTAL 54 Managed Forest Areas

Added 1985-86	1,072.87
Released 1985-86	122.07
Total	111,970.94

SILVICULTURE OPERATIONS 1985-86

Classification of Cutover Forest Land

Area in hectares

	Crown Land	FMA's	Total Crown Lands	Agree- ment Forests	W.I.A.	Other Patent Lands	Total
Harvest Cut, evenaged management	94,877	81,375	176,252	1,418	780	6,722	185,172
Harvest Cut, unevenaged management	14,054	-	14,054	230	1,622	16,906	32,812
TOTAL	108,931	81,375	190,306	1,648	2,402	23,628	217,984

SUMMARY OF SILVICULTURAL OPERATIONS

Areas in Hectares in year ending March 31, 1986

	Crown Land	Forest Management Agreements	Total Crown Land
REGENERATION			
Planting Bare Root Stock	11,864	10,861	22,725
Planting Container Stock	17,911	20,610	38,521
Planting Hybrid Poplar Cuttings	294	64	358
Seeding	6,949	11,734	18,683
Scarification	501	549	1,050
Strip Cutting	906	735	1,641
Seed Tree Cutting	2,188	173	2,361
Shelterwood Cutting	8,771	-	8,771
Clear Cutting	5,111	4,326	9,437
Total	54,495	49,052	103,547
RE-TREATMENT			
Re-treatment area included in planting and total regeneration figures above	2,509	1,953	4,462
TENDING			
Hand Cleaning	8,780	604	9,384
Herbicide Spraying	19,223	38,343	57,566
Thinning Improvement Cuts	8,474	371	8,845
Pruning	931	3	934
Fertilization Drainage	6	59	65
Total	37,414	39,380	76,794
SITE PREPARATION	45,379	49,308	94,687
UNEVEN-AGED MANAGEMENT	13,508	21	13,529
TOTAL AREA TREATED	150,796	137,761	288,557

Agreement Forests	W.I.A.	Sub-total	Other Patent Lands	Total
216	4,757	27,698	5,693	33,391
42	122	38,685	8	38,693
65	4	427	168	595
12	199	18,894	-	18,894
-	-	1,050	-	1,050
-	-	1,641	-	1,641
-	-	2,361	-	2,361
61	2	8,834	505	9,339
17	72	9,526	48	9,574
413	5,156	109,116	6,422	115,538
60	1,641	6,163	51	6,214
442	1,578	11,404	137	11,541
660	3,410	61,636	191	61,827
1,811	1,847	12,503	2,963	15,466
977	963	2,874	274	3,148
366	4	435	201	636
4,256	7,802	88,852	3,766	92,618
761	1,995	97,443	460	97,903
166	928	14,623	7,698	22,321
5,596	15,881	310,034	18,346	328,380

CROWN LANDS TREATED

Areas in hectares in years ending March 31

Silvicultural Operations	1982	1983	1984	1985	1986
REGENERATION					
Planting Bare Root					
Stock.....	22,561	21,272	21,286	15,527	22,725
Planting Container					
Stock.....	6,357	7,305	17,889	36,963	38,521
Planting Hybrid Poplar					
Cuttings.....	31	19	286	100	358
Seeding.....	27,869	29,857	21,180	15,908	18,683
Scarification.....	1,653	817	1,110	879	1,050
Strip Cutting.....	2,879	1,445	718	1,145	1,641
Seed Tree Cutting.....	3,100	3,215	4,204	2,489	2,361
Shelterwood Cutting.....	7,738	9,431	10,308	9,232	8,771
Clear Cutting.....	4,909	7,552	14,121	8,960	9,437
Total.....	77,097	80,913	91,102	91,203	103,547
RE-TREATMENT.....	2,263	2,353	3,483	3,949	4,462
TENDING					
Hand Cleaning.....	3,686	5,844	6,282	7,696	9,384
Herbicide Spraying.....	19,668	26,165	21,125	42,023	57,566
Thinning Improvement Cuts....	6,679	6,698	6,908	6,591	8,845
Pruning.....	618	756	751	596	934
Fertilization Drainage.....	163	87	207	58	65
Total.....	30,814	39,550	35,273	56,964	76,794
SITE PREPARATION	53,289	67,583	74,064	83,808	94,687
MARKING	38,954	37,229	42,301	-	-
UNEVEN-AGED MANAGEMENT	-	-	-	11,769	13,529
TOTAL AREA TREATED	202,417	225,275	242,740	243,744	288,557

TREE SEED PROGRAM 1985-86

SEED COLLECTION

Seed Crop By Species	Volume Collected (hl)
Jack Pine	8,393.20
Black Spruce	1,774.25
White Pine	106.80
White Cedar	4.75
Red Pine	298.21
Other species	59.49
Total	10,636.70

1985 SEED DISTRIBUTION

Direct seeding	1,241,687,943
Nursery stock production	566,039,484
Container stock production	439,715,052
Research and miscellaneous	12,536,032
Total viable seed	2,259,978.511

SEED IN STORAGE AS OF MARCH 31, 1986

	Dryden	Angus	Total
No. of viable seed (billion)	3.198	12.456	15.654
No. of different species	2	55	
Total weight (kg)	11,978	41,560	53,538
Total value (million)	1,687	7,430	9,117

TREE SEED AREAS

Areas in hectares

Species	Seed Collection Areas	Seed Production Areas	Seed Orchards (areas planted to date)
Black Spruce	557.1	180.4	154.4
White Spruce	118.8	202.1	152.7
White Pine	348.0	594.5	124.9
Jack Pine	12,059.4	1,192.8	122.0
Black Walnut	0	0	1.5
Others	704.9	599.7	12.2
Total	13,788.2	2,769.5	567.7

1985-6 FORESTRY EXTENSION ACTIVITIES

Field inspections	9,090
Advisory service plans prepared	2,600
Volume of timber marked - sawlogs (cubic metres)	117,600
- pulpwood (cubic metres)	42,900
- fuelwood (cubic metres)	190,000
Forestry education activities	1,100
Total trees planted - private orders	14,525,898

THE WOODLANDS IMPROVEMENT ACT 1985-86

	No. of Agreements	Area in Hectares
New W.I.A. Agreements Activated in 1984-85	571	7,062
Total W.I.A. Agreements in effect to March 31, 1985	9,916	141,734
New Advisory Service Agreements Activated in 1984-85	69	1,978
Advisory Service Agreements in effect to March 31, 1985	295	5,251
Total Trees Planted - W.I.A.:	7,789,174	

FOREST RESOURCES GROUP

TIMBER SALES BRANCH

Room W-3610, Main Office

Telephone (416) 965-2731 or 963-2396

Director.....	E. Markus.....	W-3612...965-3948
Special Projects Co-ordinator..	R. P. Alton.....	W-3610.....3-2396

TIMBER ALLOCATION SECTION

Supervisor.....	K. E. Cleary.....	W-3611...3-2396
Timber Licensing Spvr.....	R. J. Beny.....	W-3610...3-2396
Senior Licensing Clerk... ..	F. C. Parris.....	W-3601...5-2731
Resource Economist.....	I. A. Nausedas.....	W-3601...5-2731
Industry Liaison Officer.....	W. D. Wardle.....	W-3625...5-2785
Statistician.....	O. J. Menezes.....	W-3601...5-2731

MANAGEMENT PLANS SECTION

Supervisor (acting).....	T. J. Tworzyanski.....	W-3522.....5-7631
Mensuration Unit		
Chief Mensurationist.....	J. A. Mervart.....	W-3526.....5-7631
Mensurationist.....	vacant.....	Rm 168.....5-9754 880 Bay St.
Forest Ecologist.....	G. Pierpoint.....	Rm 168.....5-9755 880 Bay St.
Biomathematician.....	F. L. Raymond.....	Rm 168.....5-9756 880 Bay St.
Methods and Procedures		
Analyst.....	D. C. MacIver.....	Rm 168.....5-9756 880 Bay St.
Planning Unit		
Planning Analyst.....	H. van Bers.....	W-3523...5-7631
FMA Co-ordinator (acting)....	P. Hynard.....	W-3524...5-7631
Asst. Planning Analyst.....	vacant.....	W-3525...5-7631
Mgmt. Planning Specialist....	vacant.....	.....

WOOD MEASUREMENT SECTION

Supervisor.....	vacant.....	W-3642...5-0378
Provincial Wood Measurement		
Training Officer.....	J. Bingley.....	W-3641...5-0378
Senior Data Processing Officer.	R. G. Johnson.....	W-3641...5-0378
Data Control Officer.....	P. A. Woods.....	W-3641...5-0378

FOREST MANAGEMENT INFORMATION SECTION

Supervisor.....	J. E. Osborn.....	W-3542...5-6914
Forest Resources Inventory Unit		
Supervisor.....	D. B. Cardwell.....	W-3544...5-6914
Darkroom Spvr.....	K. A. Robinson.....	W-3520...5-6914
Operations Manager.....	D. A. Trafford.....	W-3543...5-6914
Photo Interpretation Spvr....	A. K. Manley.....	W-3546...5-6914
Data Entry Spvr.....	J. Ferguson.....	W-3541...5-6914
Spec. Asst. For. Specialist..	M. A. Chaudhry.....	W-3545...5-6914
Proj. Leader, Map Revision...	D. R. Bennett.....	W-3540...5-6914

FORMAGAIN Unit

Supervisor.....	vacant.....	MLB-43...3-0822
Sr. Systems Dev. Officer.....	A. M. Lee.....	MLB-43...3-0882

MANAGEMENT UNITS

Areas in square kilometres at March 31

CROWN LAND FORESTS						
Year	Crown		Company		FMA	
	No.	Area	No.	Area	No.	Area
1982	82	333,571	15	156,006	8	52,406
1983	77	333,781	13	139,120	13	70,218
1984	75	321,122	12	126,461	17	88,971
1985	74	330,575	10	104,577	22	113,631
1986	77	336,864	14	70,909	26	141,030

AGREEMENT FORESTS

Total		No.	Area
No.	Area		
105	541,983	58	1,013
103	543,119	58	1,109
104	536,554	58	1,108
106	548,783	58	1,108
117	548,803	57	1,105

STATUS OF FOREST MANAGEMENT PLANS, MARCH 31, 1986

Areas in square kilometres

	Forest Management Units						Agreement Forests	
	Crown No.	Crown Area	Company No.	Company Area	FMA No.	FMA Area	No.	Area
Approved Mgmt. Plans	47	158,117	5	32,534	18	93,383	41	770
Forest Mgmt. Plans submitted for review and approval	7	18,513	2	8,056	1	9,758	-	-
Forest Mgmt. Plans being prepared	9	42,770	7	30,319	7	37,888	16	335
Plans are not req'd (Inactive)	14	113,660	-	-	-	-	-	-
Unalienated Crown Lands	-	3,804	-	-	-	-	-	-
Total	77	336,864	14	70,909	26	141,030	57	1,105

TIMBER LICENCES under the Crown Timber Act

Areas in square kilometres at March 31

Year	Under Section 2 (Sale by Tender)		Under Section 3 (Order-in-Council)		Under Section 5 (Salvage)	
	No.	Area	No.	Area	No.	Area
1982	34	48.0	412	181,297.1	58	643.0
1983	26	32.3	415	178,967.1	52	545.6
1984	34	37.4	442	159,133.5	29	407.9
1985	34	27.0	456	141,368.3	27	169.6
1986	35	27.6	443	111,578.5	32	389.0
Issued 1985/86	18	12.4	238	15,084.4	23	360.6

Under Section 6 (For. Mgmt. Agr.)		Total Licences	
No.	Area	No.	Area
8	61,788.8	512	243,776.9
13	79,627.8	506	259,172.8
17	88,998.9	522	248,577.7
22	113,122.2	539	254,687.1
26	145,288.6	536	256,384.7
4	32,166.4	283	47,623.8

Note: Number of District Cutting Licences/Permits issued during 1985/86 was 2,608; and timber supply agreements signed under Section 4 during 1985/86 was 9 bringing the current total to 23.

MILL LICENCES

Type of Mill	1981	1982	1983	1984	1985
Saw Mills, 8-hour capacity					
Lumber....over 50M fbm	60	59	58	55	53
Lumber....10M to 50M fbm	85	87	88	72	69
Lumber....under 10M fbm	608	593	613	599	610
Misc. Sawn Products	50	68	44	45	30
Saw Mills, Total	803	807	803	771	762
Veneer Mills	25	26	25	28	27
Pulp Mills	21	21	20	20	20
Total	849	854	848	819	809

TIMBER HARVESTED ON CROWN LANDS BY SPECIES

In cubic metres and \$000s in years ending March 31

Species	1982	1983	1984	1985	1986
SOFTWOOD					
Balsam	718,975	586,883	638,428	723,544	809,984
Cedar	13,659	17,195	18,667	23,478	16,741
Hemlock	63,504	47,361	65,111	79,230	71,554
Jack Pine	5,362,713	4,135,200	5,182,626	5,618,274	5,578,024
Red Pine	183,663	168,759	193,575	197,854	400,155
White Pine	529,159	563,024	754,044	728,257	654,854
Spruce	7,724,772	6,707,133	8,423,622	8,987,681	8,407,276
Tamarack	2,330	1,168	2,740	1,311	3,725
Mixed	18,503	30,599	20,691	14,236	18,238
HARDWOOD					
Ash	2,021	1,558	1,516	3,770	1,956
Basswood	11,042	7,769	8,544	27,777	12,099
Beech	19,581	18,377	17,999	32,996	39,951
White Birch	77,523	93,562	83,668	180,990	253,340
Yellow Birch	105,982	78,058	94,616	106,382	109,828
Butternut	16	36	21	38	43
Cherry	1,373	1,584	2,046	2,269	1,830
Elm	39	165	35	19	18
Ironwood	1	1	2	1	1
Maple	219,345	164,317	204,384	447,911	364,855
Oak	11,389	10,415	14,190	13,960	23,937
Poplar	1,800,431	1,505,038	2,243,088	2,641,390	2,768,308
Mixed	647,366	648,316	743,663	852,633	257,607
TOTALS					
Softwoods	14,617,179	12,257,322	15,299,504	16,373,865	15,764,214
Hardwoods	2,896,121	2,529,198	3,413,771	4,310,135	3,833,773
Total	17,513,300	14,786,521	18,713,275	20,684,000	19,597,987
Value	\$42,453	\$35,037	\$47,151	\$60,965	\$60,413

VOLUME AND VALUE OF TIMBER CUT FROM CROWN LANDS

in year ending March 31, 1986

Tree Species	Volume in Cubic Metres	Bonus \$	Crown Dues \$	Stumpage Value \$
SOFTWOODS				
White Pine	654,854.339	711,904.47	2,156,301.56	2,868,206.03
Red Pine	203,817.664	186,029.30	626,252.16	812,281.46
Jack Pine	5,578,023.831	602,781.22	18,969,461.04	19,572,242.26
White Spruce	145,107.215	3,764.98	361,584.33	365,349.31
Black Spruce	660,987.408	29,096.17	2,446,672.08	2,475,768.25
Spruce, Mixed	7,601,181.691	825,842.29	26,129,592.00	26,955,434.29
Hemlock	71,554.181	19,455.40	221,324.70	240,780.10
Balsam	809,984.281	64,591.19	2,276,451.32	2,341,042.51
Cedar	16,741.176	3,584.34	49,887.43	53,471.77
Tamarack	3,724.591	175.67	11,184.16	11,359.83
Conifers, Mixed	18,237.669	5,591.82	12,561.73	18,153.55
Total Softwoods	15,764,214.046	2,452,816.85	53,261,272.51	55,714,089.36
HARDWOODS				
Maple	364,854.628	242,215.75	811,524.20	1,053,739.95
Yellow Birch	109,828.010	184,484.71	287,743.93	472,228.64
White Birch	253,339.649	114,228.84	179,483.68	293,712.52
Oak	23,936.682	30,074.90	46,772.01	76,846.91
Beech	39,950.573	12,755.08	96,894.57	109,649.65
Ash	1,956.289	2,411.53	4,735.80	7,147.33
Elm	17.695	36.07	43.75	79.82
Basswood	12,099.403	14,439.97	28,840.81	43,280.78
Butternut	43.456	65.54	95.67	161.21
Cherry	187.351	552.76	1,410.13	1,962.89
Poplar	2,768,308.104	293,651.31	2,067,262.42	2,360,913.73
Hardwoods, Mixed	257,608.631	102,824.31	171,035.58	273,859.89
Total Hardwoods	3,833,773.202	998,473.32	3,700,005.06	4,698,478.38
GRAND TOTAL	19,597,987.248	3,451,290.17	56,961,277.57	60,412,567.74

TIMBER HARVESTED ON CROWN LANDS BY METHOD OF MEASUREMENT

in cubic metres and \$000s in years ending March 31

Year	Stacked		Cubic	
	Softwood	Hardwood	Softwood	Hardwood
1980	4,698,427	770,447	6,559,707	715,644
1981	4,380,421	723,064	6,339,098	513,585
1982	3,889,894	558,760	5,070,186	611,389
1983	2,974,245	650,425	4,313,754	525,436
1984	3,192,571	499,699	5,354,306	903,933
1985	3,068,026	648,690	5,220,857	1,396,957
1986	2,758,354	613,599	4,858,816	992,904

Year	Foot Board Measure			Mass		Total	Stumpage Value
	Grade 1	Grade 2	Grade 3	Hardwood	Softwood		
1980	131,394	207,162	109,406	6,213,058		19,405,245	\$46,184
1981	90,064	144,986	70,785	6,475,267		18,737,271	\$43,727
1982	107,244	181,592	81,943	6,719,923		17,513,300	\$42,453
1983	79,545	131,481	71,228	6,040,406		14,786,521	\$35,037
1984	104,431	157,403	81,517	8,419,414		18,713,275	\$47,151
1985	150,831	283,953	200,338	9,714,347		20,684,000	\$60,965
1986	294,270	91,017	-	8,210,945	1,778,082	19,597,987	\$60,413

TIMBER HARVESTED ON CROWN LANDS BY REGION

Administrative Regions of Ministry of Natural Resources
in cubic metres in years ending March 31

Region	1982	1983	1984	1985	1986
Northwestern					
Softwoods	3,688,116	2,888,440	3,830,981	3,856,741	3,759,601
Hardwoods	71,194	76,868	90,337	135,361	137,303
North Central					
Softwoods	4,464,605	4,007,835	4,368,590	4,706,900	4,569,500
Hardwoods	923,375	847,995	1,133,546	1,533,812	1,485,805
Northern					
Softwoods	4,795,869	3,945,635	5,200,631	5,778,030	5,465,850
Hardwoods	538,589	533,394	781,957	740,893	757,997
Northeastern					
Softwoods	1,315,205	1,093,690	1,517,671	1,613,782	1,571,413
Hardwoods	766,063	523,773	703,510	949,961	710,428
Algonquin					
Softwoods	324,081	294,264	363,038	393,113	366,429
Hardwoods	492,500	442,689	606,772	847,382	643,844
Eastern					
Softwoods	29,304	22,852	18,595	23,928	31,422
Hardwoods	104,400	104,479	97,649	101,541	98,396
Central					
Softwoods	-	4,607	-	1,371	-
Hardwoods	-	-	-	1,183	-
Southwestern					
Softwoods	-	-	-	-	-
Hardwoods	-	-	-	-	-
Totals, Ontario					
Softwoods	14,617,179	12,257,322	15,299,504	16,373,865	15,764,214
Hardwoods	2,896,121	2,529,198	3,413,771	4,310,135	3,833,773
Grand Total	17,513,300	14,786,521	18,713,275	20,684,000	19,597,987

TIMBER HARVESTED ON CROWN LANDS BY METHOD OF MEASUREMENT AND TREE SPECIES

in year ending March 31, 1986

Unit of Measurement Tree Species	Billing Units	Equivalent Cubic Metres	Crown Dues \$	Stumpage Value \$
STACKED, ROUGH				
White Pine	19,248.555	19,248.555	193,051.73	198,715.92
Red Pine	14,504.928	14,504.928	37,842.06	39,335.80
Jack Pine	807,076.669	806,974.440	2,690,755.27	2,758,165.74
Spruce, Mixed	1,221,420.695	1,221,416.336	4,211,408.89	4,357,253.01
Hemlock	0.054	0.054	0.03	0.25
Balsam	103,049.744	103,049.744	273,368.53	288,130.95
Cedar	6,425.341	6,409.690	19,001.38	19,720.15
Tamarack	3,363.301	3,363.301	10,118.90	10,187.11
White Birch	22,144.207	22,135.837	15,230.43	36,757.73
Poplar	426,834.628	425,314.618	293,475.03	328,553.06
Hardwoods, Mixed	2,664.294	2,664.294	1,691.83	1,691.83
SUB-TOTAL	2,616,732.416	2,615,081.797	7,745,944.08	8,038,511.55
STACKED, PEELED				
Jack Pine	109,564.053	109,340.079	407,094.24	412,392.88
Spruce, Mixed	419,081.342	412,912.142	1,558,836.30	1,589,886.75
Balsam	59,328.257	57,212.432	35,191.44	35,485.82
Poplar	93,556.000	89,562.442	74,318.37	78,204.81
SUB-TOTAL	681,529.652	669,027.095	2,075,440.35	2,115,970.26

Unit of Measurement Tree Species	Billing Units	Equivalent Cubic Metres	Crown Dues \$	Stumpage Value \$
<hr/>				
CUBIC METRES				
White Pine	389,560.736	389,560.736	1,191,201.29	1,647,307.76
Red Pine	106,578.376	106,578.376	330,166.04	451,748.99
Jack Pine	925,989.557	926,008.323	3,211,763.22	3,278,464.28
White Spruce	145,107.215	145,107.215	361,584.33	365,349.31
Black Spruce	660,987.408	660,987.408	2,446,672.08	2,475,768.25
Spruce, Mixed	2,335,926.713	2,335,926.713	7,962,233.30	8,118,952.08
Hemlock	54,935.819	54,935.819	168,059.93	182,497.70
Balsam	160,801.908	160,801.908	529,274.36	545,226.99
Cedar	10,331.486	10,331.486	30,886.05	33,751.62
Tamarack	361.290	361.290	1,065.26	1,172.72
White Birch	63,901.086	63,901.086	45,323.78	75,791.06
Poplar	821,065.006	821,065.006	623,206.62	702,642.60
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SUB-TOTAL	5,675,546.600	5,675,565.366	16,901,436.26	17,878,673.36
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BOARD FOOT MEASURE, GRADE 1				
Maple	183,967.304	183,967.304	719,558.34	915,914.48
Yellow Birch	68,511.650	68,511.650	266,616.83	442,360.10
Oak	10,161.717	10,161.717	39,829.16	64,339.95
Beech	22,693.347	22,693.347	88,073.47	97,842.23
Ash	1,153.599	1,153.599	4,333.01	6,255.28
Elm	10.359	10.359	40.18	46.11
Basswood	6,645.167	6,645.167	26,091.50	37,956.45
Butternut	21.839	21.839	85.32	113.04
Ironwood	0.228	0.228	0.91	0.91
Cherry	1,105.010	1,105.010	5,206.32	6,377.54
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SUB-TOTAL	294,270.220	294,270.220	1,149,835.04	1,571,206.09
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Unit of Measurement Tree Species	Billing Units	Equivalent Cubic Metres	Crown Dues \$	Stumpage Value \$
BOARD FOOT MEASURE, GRADE 2				
Maple	59,073.592	59,073.592	30,027.18	40,959.79
Yellow Birch	13,031.670	13,031.670	6,601.84	8,816.04
Oak	4,593.657	4,593.657	2,243.14	4,458.85
Beech	9,578.149	9,578.149	4,892.21	5,836.06
Ash	484.369	484.369	240.84	566.82
Elm	0.681	0.681	0.35	0.39
Basswood	3,855.951	3,855.951	1,926.32	3,985.45
Hickory	0.545	0.545	0.28	0.33
Butternut	21.617	21.617	10.35	48.17
Ironwood	0.854	0.854	0.43	0.43
Cherry	376.143	376.143	187.42	259.86
SUB-TOTAL	91,017.228	91,017.228	46,130.36	64,932.19

Units of Measurement Tree Species	Billing Units	Equivalent Cubic Metres	Crown Dues \$	Stumpage Value \$
MASS-SCALED WOOD				
White Pine	217,634.517	246,045.048	772,048.54	1,022,182.35
Red Pine	72,240.569	82,734.360	258,244.06	321,196.67
Jack Pine	3,017,746.921	3,735,700.989	12,659,848.31	13,123,219.36
Spruce, Mixed	2,805,364.102	3,640,926.500	12,397,113.51	12,889,342.45
Hemlock	17,826.910	16,618.308	53,264.74	58,282.15
Balsam	450,146.285	488,920.197	1,438,616.99	1,472,198.75
White Birch	186,367.528	165,718.365	117,730.91	179,905.11
Poplar	1,418,669.371	1,432,328.833	1,076,235.78	1,251,486.64
Maple	159,210.540	121,813.732	61,938.68	96,865.68
Yellow Birch	36,968.094	28,284.690	14,525.26	21,052.50
Oak	11,999.969	9,181.308	4,699.71	8,048.11
Beech	10,036.563	7,679.077	3,928.89	5,971.36
Ash	359.279	274.891	134.37	297.65
Elm	8.698	6.655	3.22	33.32
Basswood	2,088.956	1,598.285	822.99	1,338.88
Cherry	456.044	348.929	178.90	220.55
SUB-TOTAL	8,407,124.346	9,978,180.167	28,859,334.86	30,451,641.53
FUELWOOD, STACKED, CUBIC METRES				
Conifers, Mixed	15,793.055	13,922.175	9,491.96	9,515.47
White Birch	1,240.176	1,240.176	950.63	996.51
Hardwoods, Mixed	72,681.306	72,681.306	47,174.71	70,415.92
SUB-TOTAL	89,714.537	87,843.657	57,617.30	80,927.90
FUELWOOD, CUBIC METRES				
Conifers, Mixed	4,315.494	4,315.494	3,069.77	8,638.08
White Birch	344.185	344.185	247.93	262.11
Poplar	37.205	37.205	26.62	26.62
Hardwoods, Mixed	171,457.896	171,457.896	114,266.04	193,143.80
SUB-TOTAL	176,154.780	176,154.780	117,610.36	202,070.61
FUELWOOD, MASS-SCALED				
Hardwoods, Mixed	12,364.206	10,846.938	7,928.96	8,634.25
SUB-TOTAL	12,364.206	10,846.938	7,928.96	8,634.25
TOTAL TIMBER CUT IN PROVINCE		19,597,987.248	56,961,277.57	60,412,567.74

Number of District Cutting Licences/Permits issued and included in the above: 2,608

PRINCIPAL STATISTICS OF ONTARIO'S FOREST INDUSTRY BY SECTOR

Source: Statistics Canada

Sector	Establishments Number	Total Employees Number	Total Salaries & Wages \$000s	Fuel and Electricity \$000s
1980				
Logging	391	9,578	215,652	24,072
Wood Industries	778	21,348	328,793	33,475
Paper & Allied	349	47,861	926,779	279,530
Total	1,518	78,787	1,471,224	337,077
Furniture and Fixtures	607	23,703	340,550	11,254
1981				
Logging	418	9,003	230,052	30,562
Wood Industries	774	20,970	362,998	43,705
Paper & Allied	342	47,381	1,044,810	324,780
Total	1,534	77,354	1,637,860	399,047
Furniture and Fixtures	610	25,856	416,922	15,181
1982				
Logging	418	7,079	193,796	33,320
Wood Industries	794	19,015	334,260	46,144
Paper & Allied	347	43,917	1,078,919	351,385
Total	1,559	70,011	1,606,975	430,849
Furniture and Fixtures	644	23,684	398,558	19,285
1983				
Logging	472	7,826	227,797	39,425
Wood Industries	820	19,562	381,158	54,659
Paper & Allied	301	41,001	1,110,512	381,789
Total	1,593	68,389	1,719,467	475,873
Furniture and Fixtures	707	23,218	427,289	21,244
1984				
Logging	484	9,515	275,809	44,724
Wood Industries	850	20,005	417,280	59,582
Paper & Allied	340	41,279	1,173,324	408,250
Total	1,674	70,799	1,866,413	512,556
Furniture and Fixtures	713	24,050	471,923	21,687

Sector	Materials & Supplies \$000s	Value of Shipments \$000s	Total Value Added \$000s
1980			
Logging	365,267	668,003	319,883
Wood Industries	712,130	1,275,892	562,631
Paper and Allied	2,368,722	4,598,977	1,992,117
Total	3,446,119	6,542,872	2,874,631
Furniture and Fixtures	606,934	1,224,628	615,070
1981			
Logging	381,431	717,927	327,515
Wood Industries	791,939	1,436,082	619,138
Paper and Allied	2,702,821	5,129,829	2,136,084
Total	3,876,191	7,283,838	3,082,737
Furniture and Fixtures	718,103	1,455,964	755,591
1982			
Logging	346,243	678,892	287,982
Wood Industries	678,066	1,256,366	525,522
Paper & Allied	2,596,915	4,841,076	1,939,371
Total	3,621,224	6,776,334	2,752,875
Furniture and Fixtures	646,963	1,347,435	682,402
1983			
Logging	398,704	793,959	355,758
Wood Industries	848,804	1,572,204	698,513
Paper & Allied	2,676,283	5,041,628	2,010,011
Total	3,923,791	7,407,791	3,064,282
Furniture and Fixtures	726,011	1,527,767	785,223
1984			
Logging	514,580	922,640	394,618
Wood Industries	966,637	1,740,399	753,570
Paper & Allied	3,024,916	5,820,332	2,455,213
Total	4,506,133	8,483,371	3,603,401
Furniture and Fixtures	811,176	1,716,607	900,633

Note:

Furniture and Fixtures does not include furniture upholstery, re-upholstery and repair shops.

OUTDOOR RECREATION GROUP

Room W2340, Main Office Telephone (416) 965-5661

Executive Co-ordinator.....	T. J. Millard.....	W-2341...5-5661
Secretary.....	N. Ball.....	W-2340...5-5661
Enforcement Specialist.....	W. D. Gartley.....	W-2342...5-5661
Librarian.....	S. Louet.....	W-4540...5-6319

WILDLIFE BRANCH

Room W-2320, Main Office Telephone (416) 965-4252

Branch Director.....	D. W. Simkin.....	W-2327...4254
Wildlife Planning Co-ordinator.....	W. L. Sleeth.....	W-2325...7641

Program Development & Audit

Section.....	D. A. Hagan, Spvr.....	W-2321...4252
Habitat Development.....	D. M. Hogg.....	W-2309...7641
Deer/Caribou Program.....	R. A. Stefanski.....	W-2331...4252
Upland Game/Waterfowl Program...	J. L. Marcus.....	W-2332...4252
Moose/Bear Program.....	H. Smith.....	W-2323...4252
Non-game Program.....	I. E. Bowman.....	W-2330...4252
Wetland Habitat.....	V. A. Glooschenko.....	W-2322...7641
Extension Development Section.....	L. Whistance-Smith, Spvr	W-2326...4252
Wildlife Extension Officer.....	H. D. Jenkins.....	W-2320...4252
Wildlife Services Section.....	M. C. Smith, Spvr.....	W-2328...4252
Commercial Wildlife Program.....	M. Novak.....	W-2423...3345
Hunter Education.....	W. M. McKittrick.....	W-2306...7641
Legal Services.....	M. Chromec.....	W-2329...4252
Data System.....	J. M. Barbowski.....	W-2304...7641

Box 50, Maple, Ont. L0J 1E0 Telephone (416) 832-2761

Wildlife Research Section.....	C. D. MacInnes, Spvr....	Extension..241
Population Dynamics.....	D. J. Hussell.....	Extension..241
Bio-Electronic Scientist.....	Vacant.....	Extension..241
Field Studies Scientist.....	D. R. Voigt.....	Extension..241
Rabies Unit Leader.....	D. H. Johnston.....	Extension..241
Upland Game/Waterfowl Scientist.	H. G. Lumsden.....	Extension..241
Predator Scientist.....	G. B. Kolenosky.....	Extension..241
Disease/Parasites Scientist.....	E. M. Addison.....	Extension..241

HUNTING STATISTICS - Estimates compiled from hunters surveyed by mail

Year	RESIDENT			NON-RESIDENT		
	Hunters	Hunter Days	Harvest	Hunters	Hunter Days	Harvest
MOOSE						
1979	70,770	529,400	10,110	7,220	54,600	1,580
1980	71,670	426,700	7,670	3,930	25,200	690
1981	66,850	405,500	7,630	3,110	19,400	460
1982	85,630	508,100	10,150	3,060	19,200	550
1983	69,780	537,400	8,640	2,080	13,300	410
1984	77,020	582,900	9,850	2,130	13,700	480
DEER						
1979	78,440	415,800	13,200	1,560	8,700	*370
1980	80,280	443,200	9,150	780	4,400	110
1981	84,590	469,500	10,610	590	3,000	70
1982	91,750	500,300	11,870	560	2,900	90
1983	99,690	573,400	18,930	510	2,800	80
1984	103,050	590,900	23,870	520	2,800	110
SMALL GAME *						
1976-77	242,310	3,388,000		8,530	62,300	
1978-79	226,693	2,975,400		8,724	55,100	
1979-80	214,550	2,829,600		10,520	65,700	
1980-81	220,020	2,781,300		11,170	76,100	
BEAR						
1981	8,170	58,300	1,370	12,230	81,400	3,700
1983	10,660	90,600	1,720	15,060	101,300	4,820
1984	9,160	80,400	1,300	15,260	102,600	4,970

* Includes deer harvested on moose licences.

TOTALS

Year	Total Hunters	Hunter Days	Harvest
MOOSE			
1979	77,990	584,000	11,690
1980	75,600	451,900	8,360
1981	69,960	429,900	8,090
1982	88,690	527,300	10,700
1983	71,860	550,700	9,050
1984	79,150	596,600	10,340
DEER			
1979	80,000	424,500	*13,570
1980	81,060	447,600	9,260
1981	85,180	472,500	10,680
1982	92,310	503,200	11,960
1983	100,200	576,200	19,010
1984	103,570	593,700	23,980
BEAR			
1981	20,400	139,700	5,070
1983	25,720	191,900	6,540
1984	24,420	183,000	6,270

EXPENDITURE BY HUNTERS - (Excluding Licence Fees)

Survey Year*	Hunt	Estimates compiled from Hunters Surveyed by Mail		
		Resident	Non-Resident	Total
1979-80	Moose	22,833,000	3,803,000	26,636,000
1980-81	Moose	21,334,000	2,302,000	23,636,000
1981-82	Moose	23,576,000	1,929,000	25,505,000
1982-83	Moose	28,900,000	1,889,000	30,789,000
1983-84	Moose	28,856,000	1,597,000	30,453,000
1984-85	Moose	32,460,000	1,727,000	34,187,000
1979-80	Deer	14,892,000	548,000	15,440,000
1980-81	Deer	15,887,000	297,000	16,184,000
1981-82	Deer	18,163,000	229,000	18,392,000
1982-83	Deer	20,306,000	240,000	20,546,000
1983-84	Deer	24,038,000	230,000	24,268,000
1984-85	Deer	26,386,000	214,000	26,600,000
1976-77	Small Game	53,561,000	3,252,000	56,813,000
1978-79	Small Game	47,634,000	3,278,431	50,912,431
1979-80	Small Game	47,162,000	4,413,000	51,575,000
1980-81	Small Game	50,000,000	4,563,000	54,563,000
1981-82	Bear	2,233,000	5,352,000	7,585,000
1983-84	Bear	3,724,000	8,012,000	11,736,000
1984-85	Bear	3,385,000	8,398,000	11,783,000

HUNTING LICENCES SOLD

Year	DEER		MOOSE		BEAR	
	Resident	Non-Res.	Resident	Non-Res.	Resident	Non-Res.
1981-82	91,695	630	73,851	3,214	13,736	13,341
1982-83	101,712	570	92,393	3,111	13,817	14,639
1983-84	112,318	535	75,650	2,148	15,464	16,109
1984-85	114,729	556	89,492	2,201	13,696	16,160
1985-86	125,049	670	91,319	2,701	14,198	17,739

Year	SMALL GAME		TOTAL		Total
	Resident	Non-Res.	Resident	Non-Res.	
1981-82	337,736*	12,492	538,432	29,677	568,109
1982-83	338,279	11,202	546,201	29,522	575,723
1983-84	321,484	10,844	524,916	29,636	554,552
1984-85	306,682	11,332	524,599	30,249	554,848
1985-86	308,478	12,434	526,640	33,542	560,182

* Includes summer hunting tag.

FUR HARVESTS

in years ending June 30

Average Pelt value, 1984 \$		Totals from Sealing Officers' Reports and Fur Dealers' Returns			
		1982	1983	1984	1985
33.47	Beaver	143,352	141,648	119,080	133,011
35.13	Mink	30,372	21,575	16,183	16,107
54.26	Marten	60,705	58,522	64,545	30,671
61.79	Otter	9,506	10,189	7,576	9,145
204.08	Fisher	3,717	4,413	3,725	3,002
567.62	Lynx	2,913	2,888	1,707	495
134.72	Bobcat	30	47	26	15
4.73	Muskrat	435,741	617,459	450,634	540,943
24.50	Raccoon	150,932	126,636	72,844	87,344
.35	Red Squirrel	8,693	7,652	3,229	6,034
1.65	Weasel	6,314	3,941	3,281	3,690
49.25	Coloured Fox	25,462	21,929	19,629	18,362
20.22	Arctic Fox	217	106	44	116
56.63	Timber Wolf	1,311	1,154	884	1,003
33.50	Coyote	2,784	2,347	2,718	2,603
55.25	Black Bear	230	120	132	81
192.50	Wolverine	22	26	12	9
1.78	Skunk	425	536	264	147
36.00	Grey Fox	2	5	11	2
283.33	Polar Bear	28	4	19	23
10.99	Badger	2	7	7	1
2.31	Opossum	3	53	89	33
Total Pelts		882,761	1,021,257	766,639	852,837
Total Value		16,660,204	14,343,082	13,173,998	13,913,083

Total royalties collected in 1984-85 \$578,627.25

TRAPPER LICENCES, 1984-85

Registered.....	3,196 @ \$5.25 = \$16,779.00
Resident.....	7,605 @ \$5.25 = \$39,926.25
Farmer.....	897 @ \$0 = ---
Registered Treaty.....	3,304 @ \$1.00 = \$ 3,304.00
Land Owner.....	211 @ \$5.25 = \$ 1,107.75
Totals.....	15,213 \$61,117.00
Raccoon Hunters.....	2,998 @ \$5.25 = \$15,739.50

HUNTER EDUCATION PROGRAM

Training began in 1957. It became mandatory for new hunters in 1960, and for new hunters under the age of 20 years in 1968. In 1983, it became mandatory for individuals born after December 31, 1954 to complete the training course before applying for the Hunting Licence Examination.

Year	ACTIVE	STUDENTS	To Date	HUNTING ACCIDENTS		
	INSTRUCTORS at Dec. 31	TRAINED Yearly		Non-Fatal	Fatal	Total

1980	1,320	38,730	564,608	56	6	62
1981	1,406	39,625	604,233	33	3	36
1982	1,295	34,430	638,663	38	4	42
1983	1,150	30,216	668,879	20	3	23
1984	1,175	33,117	701,996	34	4	38
1985	1,176	27,241	729,237	36	4	40

29 PROVINCIAL WILDLIFE AREAS

	Hectares
Aylmer Provincial Wildlife Area	150
Brighton Provincial Wildlife Area	388
Bruce Recreation Area	3,925
Camden Lake Wildlife Management Area	1,052
Copeland Forest	1,760
Darlington Provincial Park	111
Fingal Provincial Wildlife Area	293
Gananoque Provincial Wildlife Area	580
Holiday Beach Provincial Park	198
Holland Marsh Provincial Wildlife Area	573
Hoople Creek Provincial Wildlife Area	105
Hullett Provincial Wildlife Area	2,794
Long Point Provincial Wildlife Area	500
Luther Marsh Wildlife Area	5,666
Matchedash Bay Provincial Wildlife Area	225
Mountain Provincial Wildlife Area	1,457
Nonquon River Wildlife Area	1,133
Point Petre Provincial Wildlife Area	1,276
Presqu'ile Provincial Park	931
Puslinch Crown Resource Management Area	138
Rankin Wildlife Management Area	3,800
Rondeau Provincial Park	4,654
St. Edmunds Provincial Wildlife Area	6,799
Scugog Island	182
Sibbald Point Provincial Park	225
Stag Island Wildlife Management Area	17
Tiny Marsh Provincial Wildlife Area	931
Wye Marsh Provincial Wildlife Area	919

13 WILDLIFE EXTENSION
LANDOWNER AGREEMENT AREAS

	Hectare
Aylmer Ponds	43
Beverly Swamp	430
Binbrook	401
Calton Swamp	96
Christie	340
Crooks Hollow	17
Hawk Cliff	34
Lake St. Lawrence	6,070
Mud Lake	61
Orangeville Reservoir	316
Valens	223
Waterford Lakes	290
Willoughby Marsh	227

ENFORCEMENT STATISTICS 1985-86

District or Region	No. of Field Conservation Officers	No. of Deputy Conservation Officers	No. of Contacts by Conservation Officers	No. of F & W Warnings
Algonquin	27.5	84	31,346	1,303
Central	30.0	75	55,912	2,663
Eastern	31.0	27	50,778	1,589
Northern	26.0	34	42,756	1,381
Northeastern	33.5	73	41,852	106
North Central	22.0	18	35,377	1,517
Northwestern	27.0	25	53,999	1,469
Southwestern	29.5	78	100,589	1,985
Total	226.5	414	412,609	12,013

District or Region	No. of F & W Charges	No. of Other Charges	Total Amt. of F & W Charge Fines	Total Amt. of Other Charge Fines	Total Amt. of Fines
Algonquin	845	666*	66,139.00	34,702.00	100,841.00
Central	1,113*	746	105,852.00	39,957.00	145,809.00
Operation Falcon	138	-	32,000.00		32,000.00
Eastern	1,020	620	68,059.00	39,881.00	107,940.00
Northern	858	39	62,617.45	5,458.25	68,075.70
Northeastern	604	136	70,477.50	6,566.25	77,043.75
North Central	660	158	42,280.00	6,175.00	48,455.00
Northwestern	941	422	70,687.62	15,764.23	86,451.85
Southwestern	1,165	2,300	79,828.00	122,661.00	202,489.00
Total	7,344	5,087	597,940.07	271,164.73	869,104.80

* 599 charges were laid by Park Wardens, 29 by Deputy Conservation Officers and 19 by Fire

** Does not include charges or fines for "Operation Falcon" (Birds of Prey Investigations) - 59 F & W chages
 - 13 Customs
 - 40 Criminal Code
 - 26 Export/Import
 Fines: \$32,000/90 days in jail

Outdoor Recreation Group

PARKS AND RECREATIONAL AREAS
BRANCH

Room W-3329, Main Office

Telephone (416) 965-5160

Branch Director.....	N. R. Richards.....	W-3329...5160
Policy Co-ordinator.....	F. L. Bishop.....	W-3328...2745
Secretary.....	Ms S. D. Hellman...	W-3328...5160
Operations Manager.....	J. Griffin.....	W-3342...1245
Operations Secretary.....	Mrs J. Miller.....	W-3340...1245
Operations Stenographer.....	N. G. Zagerman.....	W-3340...1245
Park Mgmt. Supervisor.....	B. van Staalduinen.	W-3343...1245
Parks Technician.....	M. Lynch.....	W-3346...1245
Visitor Services Supervisor.....	G. Forma.....	W-3347...1245
Parks and Recreational Areas Technician.....	D. White.....	W-3345...1245
Research and Computer Applications Supervisor.....	D. Hallman.....	W-3344...1245
Park Mgmt. and Research Technician.....	P. Walsh.....	W-3352...1245
Mgmt. Information Specialist.....	D. Driscoll.....	W-3351...1245
Mgmt. Information Clerk.....	Ms D. Alexander....	W-3353...1245
Planning and Development Manager.....	K. G. McCleary.....	W-3326...2745
Planning and Development Secretary....	vacant.....	W-3326...2745
Planning and Development Stenographer.	Ms R. Coombs.....	W-3310...2745
Planning and Development Clerk.....	Ms P. A. Naylor....	W-3330...2745
Planning and Development Typist.....	Mrs R. Watkins.....	W-3320...2745
Senior Landscape Architect.....	G. Pittenger.....	W-3330...2745
Landscape Architect.....	J. Huang.....	W-3330...2745
Supervisor, Environmental and Design Services.....	S. Cowan.....	W-3324...2745
Environmental and Design Services Engineer.....	J. Kolodziej.....	W-3322...2745
Draftsperson.....	Ms M. Lehoczky....	W-3330...2745
Project Development Officer.....	H. Miles.....	W-3323...2745
Mechanical Designer.....	G. Szepielewicz....	W-3320...2745
Sanitary Draftsperson.....	Mrs B. Manowski....	W-3320...2745
Architectural Draftsperson.....	B. Joyce.....	W-3320...2745
Supervisor Planning.....	R. Phillips.....	W-3301...2745
Special Projects Officer.....	vacant.....	W-3327...2745
Earth Sciences Planner.....	R. J. Davidson.....	W-3301...2745
Life Sciences Planner.....	T. J. Beechey.....	W-3301...2745

PUBLIC USE OF PROVINCIAL PARKS

Year	Interior Campers	Campers	Average Days	Camper Nights	Total Visitors
1981	74,199	1,321,494	2.5	3,283,299	*5,948,528
1982	80,550	1,267,974	2.6	3,287,603	6,250,777
1983	85,131	**1,354,019	2.7	***3,726,427	****7,647,287
1984	—	1,461,904	2.6	3,764,006	7,337,892
1985	—	1,429,440	2.6	3,718,634	+7,524,003

VISITOR SERVICES PROGRAM ATTENDANCE

Organized Events/Activities

Year	Parks	Guided Tours	Personal Service Evening Programs	Film Programs	School Programs	Children's Programs	Special Events	Other
1984	67	30,886	96,711	92,725	14,566	17,723	74,684	60,154
1985	69	34,773	111,472	107,947	57,366	22,042	79,553	75,205

Indoor Facilities

Outdoor Self-Use Facilities

Indoor Displays Museums	Activity Centre	Other	Open Air Displays/ Exhibits	Inter- pretive Trails	Other Trails	Other
318,393	79,357	12,665	99,154	362,262	121,002	16,775
286,515	50,163	73,385	150,101	321,303	165,250	73,714

PUBLICATIONS

Priced	Other	Free
7,587	5	1,160,615
++91,377	84	1,406,308

[illegible]

GROWTH OF PROVINCIAL PARKS

Areas in hectares

Year	Camping Parks	Units	No.	Reserve Areas ha	No.	Provincial Parks ha
1981	97	20,757	101	949,726	131	4,252,960
			37	++++18,167		
1982	97	20,393	97	944,337	133	4,258,632
			37	18,167		
1983	97	20,526	144	+++++790,132	138	5,476,369
1984	97	20,481	88	759,556	190	5,605,417
1985	97	20,472	55	695,868	220	5,657,287

* Includes free day-use visitors.

** Includes interior campers.

*** Includes interior camper nights.

**** Includes interior visitors + traffic count visitors for
Wasaga Beach Provincial Park.

+ Includes winter visitors (November 1, 1984 to March 31, 1985)

++ Includes publications produced by The Friends of Algonquin Park.

+++ Publications not included.

++++ Any area acquired by MNR for recreational or other purposes
but not intended for designation as a provincial park.

+++++ Recommended provincial parks area.

220 PROVINCIAL PARKS IN REGULATION IN 1985

Region, District Provincial Park	Area in Hectares	Developed Campsites	Campers	Camper Nights
NORTHWESTERN REGION				
RED LAKE				
Opasquia	473,000	-	-	-
Pakwash	631	60	1,560	3,119
Woodland Caribou	450,000	-	-	696
KENORA				
Rushing River	190	191	18,963	45,510
Sioux Narrows	129	71	5,951	11,306
FORT FRANCES				
Caliper Lake	134	92	5,397	10,254
Lake of the Woods	12,900	100	2,426	6,550
Sandpoint Island	900	-	-	-
DRYDEN				
Aaron	117	98	4,369	5,680
Blue Lake	354	188	17,541	35,082
Winnange Lake	4,745	-	-	-
SIOUX LOOKOUT				
Ojibway	2,630	50	2,954	4,726
IGNACE				
Sandbar Lake	3,157	75	6,089	9,743
Total, 13 Parks	948,887	925	65,250	132,666

Region, District Provincial Park	Area in Hectares	Developed Campsites	Campers	Camper Nights
NORTH CENTRAL REGION				
ATIKOKAN				
Quetico	475,819	133	52,202	109,625
THUNDER BAY				
Arrow Lake	430	-	-	-
Kakabeka Falls	420	166	22,237	31,132
Kashabowie	2,055	-	-	-
Middle Falls	907	25	1,655	1,821
Sibley	24,435	200	11,362	24,997
Silver Falls	3,261	-	-	-
NIPIGON				
Lake Nipigon	1,458	85	1,974	2,961
Wabakimi	155,000	-	-	-
GERALDTON				
Klotz Lake	119	30	1,092	1,419
MacLeod	74	85	3,496	10,838
TERRACE BAY				
Neys	3,445	146	12,780	17,892
Rainbow Falls	575	225	12,383	16,098
Slate Islands	6,570	-	-	-
Total, 14 Parks	674,568	1,095	119,181	216,783

Region, District Provincial Park	Area in Hectares	Developed Campsites	Campers	Camper Nights
NORTHERN REGION				
HEARST				
Fushimi Lake	5,294	46	2,328	8,382
Nagagamisis	8,131	165	2,703	10,542
MOOSONEE				
Polar Bear	2,408,700	-	-	-
Tidewater	980	30	922	922
KAPUSKASING				
Rene Brunelle	2,964	122	4,324	12,540
COCHRANE				
Abitibi de Troyes	11,068	-	-	-
Greenwater	5,350	135	3,073	7,067
Kesagami	55,977	-	-	-
TIMMINS				
Kettle Lakes	1,261	165	6,088	20,089
KIRKLAND LAKE				
Esker Lakes	3,237	136	3,742	11,601
Kap-Kig-Iwan	292	64	2,958	5,028
CHAPLEAU				
Five Mile Lake	456	-	-	-
Ivanhoe Lake	1,589	149	4,643	12,072
Missinaibi Lake	44,061	50	2,516	10,064
The Shoals	10,644	46	1,886	4,150
Wakami Lake	8,806	65	4,006	17,224
Total, 16 Parks	2,568,810	1,173	39,189	119,681

Region, District Provincial Park	Area in Hectares	Developed Campsites	Campers	Camper Nights
NORTHEASTERN REGION				
WAWA				
Lake Superior	155,659	280	21,908	30,671
Michipicoten	289	-	-	-
Michipicoten Island	36,740	-	-	-
Obatanga	9,409	132	6,623	10,596
White Lake	1,726	185	16,417	26,267
SAULT STE. MARIE				
Batchawana	169	-	-	-
Pancake Bay	490	338	24,357	41,407
BLIND RIVER				
Aubrey Falls	4,860	-	-	-
Mississagi	2,883	100	3,407	9,881
ESPANOLA				
Chutes	108	134	15,319	21,447
La Cloche	7,448	-	-	-
SUDBURY				
Fairbank	105	160	7,045	21,135
Halfway Lake	4,730	215	15,509	48,077
Killarney	48,500	122	16,623	44,882
Mashkinonje	940	-	-	-
Wanapitei	2,700	-	-	-
Windy Lake	118	83	6,568	19,048
TEMAGAMI				
Finlayson Point	37	114	5,466	14,758
Lady Evelyn Smoothwater	72,400	-	-	-
W. J. B. Greenwood	465	-	-	-
NORTH BAY				
Antoine	12	30	97	338
Marten River	400	216	5,731	15,475
Restoule	1,200	278	6,272	27,596
Samuel de Champlain	2,550	216	7,024	16,857
South Bay	1,525	-	-	-
Total, 25 Parks	355,463	2,603	158,366	348,435

Region, District Provincial Park	Area in Hectares	Developed Campsites	Campers	Camper Nights
ALGONQUIN REGION				
PARRY SOUND				
Grundy Lake	2,554	520	18,583	55,748
Killbear	1,756	883	39,549	185,878
Oastler Lake	32	145	9,523	28,570
Sturgeon Bay	14	82	4,733	14,199
BRACEBRIDGE				
Arrowhead	963	389	28,918	69,403
Bigwind Lake	1,970	-	-	-
Hardy Lake	684	-	-	-
J. Albert Bauer	163	-	-	-
Mikisew	131	265	13,560	31,187
BANCROFT				
Lake St. Peter	25	62	4,479	8,957
Petroglyphs	1,555	-	-	-
Silent Lake	1,450	167	11,924	27,425
ALGONQUIN PARK				
Algonquin	765,345	1,385	144,493	404,580
PEMBROKE				
Bonnechere	113	113	4,832	17,396
Carson Lake	13	43	1,380	2,208
Driftwood	265	79	4,661	8,389
Foy Property	148	-	-	-
Westmeath	610	-	-	-
Total, 18 Parks	777,791	4,133	286,635	853,940

Region, District Provincial Park	Area in Hectares	Developed Campsites	Campers	Camper Nights
EASTERN REGION				
CARLETON PLACE				
Carillon	1,417	416	18,750	43,125
Fitzroy	185	245	17,132	34,263
Murphys Point	1,240	182	10,602	26,504
Rideau River	98	186	15,229	27,412
Silver Lake	43	148	10,569	22,195
Sharbot Lake	69	194	10,543	28,465
NAPANEE				
Bon Echo	6,644	530	29,749	101,148
Charleston Lake	902	250	28,129	64,697
Ferris	198	163	3,586	6,814
Frontenac	5,130	42	-	3,379
Lake on the Mountain	104	-	-	-
North Beach	89	-	-	-
Presqu'ile	937	393	33,312	93,273
Sandbanks	1,509	411	35,375	116,739
Total, 14 Parks	18,565	3,160	212,976	568,014

Region, District Provincial Park	Area in Hectares	Developed Campsites	Campers	Camper Nights
CENTRAL REGION				
LINDSAY				
Balsam Lake	449	489	30,376	85,053
Darlington	209	350	32,427	64,853
Emily	83	299	18,242	52,903
Mark S. Burnham	39	-	-	-
Quackenbush	40	-	-	-
Serpent Mounds	135	113	10,176	31,546
Wolf Island	222	-	-	-
HURONIA				
Awenda	2,917	200	14,822	38,538
Bass Lake	39	92	15,577	35,828
Boyne Valley	434	-	-	-
Devil's Glen	6	45	3,555	5,332
Earl Rowe	312	555	26,688	66,721
Mara	45	106	6,747	20,916
McRae Point	138	205	13,327	39,982
Mono Cliffs	631	-	-	-
Six Mile Lake	94	192	16,642	41,606
Springwater	47	-	-	-
Wasaga Beach	1,545	-	-	-
MAPLE				
Forks of the Credit	261	-	-	-
Sibbald Point	226	648	44,204	123,770
CAMBRIDGE				
Bronte Creek	640	-	-	-
NIAGARA				
Rock Point	187	126	12,070	28,969
Short Hills	661	-	-	-
Total, 23 Parks	9,360	3,420	244,853	636,017

Region, District Provincial Park	Area in Hectares	Developed Campsites	Campers	Camper Nights
SOUTHWESTERN REGION				
SIMCOE				
Long Point	141	268	20,453	73,632
Selkirk	73	145	2,919	9,925
Turkey Point	311	365	10,942	27,354
AYLMER				
Iroquois Beach	227	232	14,346	47,341
John E. Pearce	68	-	-	-
Port Bruce	5	-	-	-
CHATHAM				
Holiday Beach	92	46	3,445	8,612
Pecche Island	153	-	-	-
Rondeau	3,254	226	19,288	57,863
Wheatley	241	210	18,287	43,888
WINGHAM				
Ipperwash	56	266	16,388	70,467
Pinery	2,533	1,080	100,831	272,814
Point Farms	308	199	17,569	45,679
OWEN SOUND				
Craigleith	66	172	18,056	37,918
Cyprus Lake	669	242	29,427	58,853
Fathom Five	9,976	-	-	-
Inverhuron	289	-	-	-
MacGregor Point	1,204	360	18,431	53,450
Pretty River Valley	808	-	-	-
Sauble Falls	20	152	12,608	35,302
Total, 20 Parks	20,494	3,963	302,990	843,098
WATERWAY PARKS				
Chapleau-Nemegosenda River	8,165	(Chapleau)	-	-
Larder River	2,500	(Kirkland Lake)	-	-
Little Abitibi	20,000	(Cochrane)	-	-
Makobe-Grays River	1,427	(Temagami/ Kirkland Lake)	-	-
Mattawa River	3,258	(North Bay)	-	-
Mississagi River	19,814	(Blind River, Espanola, Chapleau)	-	-
Opeongo River	955	(Bancroft)	-	-
Oxtongue River-Ragged Falls	382	(Bracebridge)	-	-
Winisk River	173,530	(Geraldton)	-	-
Total, 9 Parks	230,031	-	-	-

NATURE RESERVE PARKS

Adam Creek	50	(Kapuskaasing)	-	-
Agassiz Peatlands	2,315	(Fort Frances)	-	-
Albert Lake Mesa	130	(Nipigon)	-	-
Arrowhead Peninsula	815	(Thunder Bay)	-	-
Bayview Escarpment	439	(Owen Sound)	-	-
Bonheur River Kame	800	(Ignace)	-	-
Butler Lake	3,400	(Dryden)	-	-
Cabot Head	4,514	(Owen Sound)	-	-
Castle Creek	1,075	(Thunder Bay)	-	-
Cavern Lake	189	(Thunder Bay)	-	-
Coral Rapids	12	(Cochrane)	-	-
Craig's Pit	530	(Terrace Bay)	-	-
Cranberry Lake	2,800	(Fort Frances)	-	-
Devon Road Mesa	60	(Thunder Bay)	-	-
Divide Ridge	235	(Thunder Bay)	-	-
Dividing Lake	350	(Bracebridge)	-	-
Duclos Point	111	(Maple)	-	-
Duncan Crevice Caves	161	(Owen Sound)	-	-
East Sister Island	53	(Chatham)	-	-
Edward Island	600	(Thunder Bay)	-	-
Fish Point	110	(Chatham)	-	-
Fraleigh Lake	825	(Thunder Bay)	-	-
Frederick House Lake	13	(Timmins)	-	-
Gibson River	168	(Huronian)	-	-
Gravel River	763	(Terrace Bay)	-	-
Hope Bay Forest	353	(Owen Sound)	-	-
Kabitotikwia River	1,965	(Nipigon)	-	-
Kama Hills	1	(Nipigon)	-	-
Le Pate	250	(Thunder Bay)	-	-
Lighthouse Point	96	(Chatham)	-	-
Limestone Islands	450	(Parry Sound)	-	-
Lion's Head	526	(Owen Sound)	-	-
Little Cove	16	(Owen Sound)	-	-
Little Greenwater Lake	244	(Thunder Bay)	-	-
Livingstone Point	1,800	(Nipigon)	-	-
Lola Lake	6,572	(Dryden)	-	-
Matawatchan	65	(Pembroke)	-	-
Matawin River	2,615	(Thunder Bay)	-	-
Mississagi Delta	2,395	(Blind River)	-	-
Montreal River	44	(Sault Ste. Marie)	-	-
Nagagami Lake	1,650	(Hearst)	-	-
North Driftwood River	3	(Cochrane)	-	-
O'Donnell Point	875	(Parry Sound)	-	-
Ojibway Prairie	65	(Chatham)	-	-
Ouimet Canyon	777	(Thunder Bay)	-	-
Peter's Woods	34	(Lindsay)	-	-

NATURE RESERVE PARKS

Porphyry Island	107	(Thunder Bay)	-	-
Potholes	247	(Wawa)	-	-
Prairie River Mouth	380	(Terrace Bay)	-	-
Puff Island	9	(Nipigon)	-	-
Pushkin Hills	5	(Kirkland Lake)	-	-
Red Sucker Point	360	(Terrace Bay)	-	-
Sable Islands	1,996	(Fort Frances)	-	-
Schreiber Channel	13	(Terrace Bay)	-	-
Sedgman Lake	5,710	(Nipigon)	-	-
Sextant Rapids	4	(Cochrane)	-	-
Shallow River	2	(Cochrane)	-	-
Shesheeb Bay	275	(Nipigon)	-	-
Smokey Head/White Bluff	347	(Owen Sound)	-	-
Spruce Islands	970	(Fort Frances)	-	-
Stoco Fen	102	(Tweed)	-	-
Thackeray	116	(Kirkland Lake)	-	-
Thompson Island	145	(Thunder Bay)	-	-
Timber Island	44	(Napanee)	-	-
Trillium Woods	10	(Aylmer)	-	-
Waubashene Beaches	34	(Huron)	-	-
West Bay	1,120	(Nipigon)	-	-
Williams Island	8	(Cochrane)	-	-
<hr/>				
Total, 68 Parks	53,318	-	-	-

	Area in hectares	Developed Campsites	Campers	Camper Nights
Total, 220 Parks	5,657,287	20,472	1,429,440	3,718,634

* 55 RECOMMENDED PROVINCIAL PARKS - 1985

Region, District Recommended Provincial Parks	Area in Hectares
NORTHWESTERN REGION	
RED LAKE	
Pakwash Addition	2,070
Trout Lake	7,850
SIOUX LOOKOUT	
Albany River	65,360
Fawn River	4,700
Minnitaki Kames	4,340
Otoskwin - Attawapiskat River	3,400
Pipestone River North	53,250
Pipestone River South	25,720
Severn River	93,700
Windigo Point	380
IGNACE	
Brightsands River	22,800
White Otter L. Turtle R.	21,400
DRYDEN	
Gold Rock	710
Total, 13 Parks	305,680

Region, District	Area in Hectares
Recommended Provincial Parks	

NORTH CENTRAL REGION

NIPIGON

Pantagrueel Creek	2,200
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Windigo Bay	8,300
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THUNDER BAY

Brightsands River	5,036
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Kaiashk	230
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Kopka River	11,000
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La Verendrye River	4,390
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TERRACE BAY

Steel River	9,570
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GERALDTON

Albany River	62,723
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Little Current River	9,830
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Otoskwin-Attawapiskat River	69,542
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White Otter Lake Turtle River	20,000
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Total, 11 Parks	202,821
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Region, District Recommended Provincial Parks	Area in Hectares
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NORTHERN REGION

CHAPLEAU

Biscotasing

1,150

Missinaibi

86,450

TIMMINS

Dana - Jowsey

2,550

GOGAMA

La Motte Lake

510

Total, 4 Parks

90,660

Region, District Recommended Provincial Parks	Area in Hectares
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NORTHEASTERN REGION

BLIND RIVER Mississagi Extension	1,840
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SUDBURY French River	43,800
Sturgeon River	2,240

NORTH BAY Great Manitou Island	80
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ESPANOLA Misery Bay	697
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Total, 5 Parks	48,657
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Region, District Recommended Provincial Parks	Area in Hectares
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ALGONQUIN REGION

PARRY SOUND

Blackstone Harbour	12,250
Round Lake	4,620

BRACEBRIDGE

Chetwynd	520
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BANCROFT

Egan Chutes	320
Kawartha Highlands	1,880
Upper Madawaska River	750

PEMBROKE

Bell Bay	1,630
Bonnechere River	570
Centennial Lake	3,830
Lower Madawaska River	1,770
MacKenzie Lake Addition	1,530
Ottawa River	450

MINDEN

MacRae Addition	6,150
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Total, 13 Parks	36,270
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Region, District Recommended Provincial Parks	Area in Hectares
--	------------------

EASTERN REGION

BROCKVILLE
James Auld

3,810

Total, 1 Park

3,810

CENTRAL REGION

LINDSAY
Indian Point

860

HURONIA
Lavender Falls
Scott's Falls

390

410

NIAGARA
James N. Allen

280

Total, 4 Parks

1,940

Region, District Recommended Provincial Parks	Area in Hectares
SOUTHWESTERN REGION	
AYLMER	
Komoka	500
OWEN SOUND	
Black Creek	770
Ira Lake	460
Johnston Harbour/Pine Tree Point	4,300

Total, 4 Parks	6,030

TOTAL, 55 Recommended Provincial Parks	695,868

* Recommended parks will be phased into the Provincial Parks system in the near future.

Outdoor Recreation Group

FISHERIES BRANCH

Room W-2347, Main Office Telephone (416) 965-7885

Branch Director.....	A. S. Holder.....	W-2347.....	5947
Secretary.....	J. Mills.....	W-2348.....	7885
Policy Development Co-ordinator..	J. T. Allin.....	W-2350.....	7885
Client Services Section.....	C. A. Haxell, Mgr.....	W-2349.....	7885
Secretary.....	F. Heffernan.....	W-2348.....	7885
Information Co-ordinator.....	A. A. Wainio.....	W-2353.....	7885
Data Systems Management			
Biologist.....	W. G. Simpson.....	W-2446.....	7885
Economist.....	N. Bedi.....	W-2344.....	7885
Commercial Development Co-ord..	J. C. Tilt.....	W-2455.....	7885
Regulations Clerk.....	K. E. Jones.....	W-2456.....	7885
Fish Culture Section.....	J. M. Byrne, Spvr.....	W-2448.....	7886
Secretary.....	L. Lavallee.....	W-2448.....	7886
Production Biologist.....	J. D. Hynes.....	W-2449.....	7886
Fish Health Biologist.....	.....	W-2453.....	7886
Fish Nutrition Specialist.....	C. Y. Cho.....	(519) 824-4120	2212
Fish Assessment Biologist.....	A. J. Sippel.....	W-2450.....	7886
Fish Culture Operations			
Co-ordinator.....	C. C. Mack.....	Maple..	832-2761
Fish Culture Operations			
Specialist.....	F. S. Watson.....	Maple..	832-2761
Engineer.....	H. K. Yoshida.....	W-2452.....	7886
Environmental Dynamics Section...	D. P. Dodge, Spvr.....	W-2312.....	7887
Secretary.....	B. Fernandez.....	W-2312.....	7887
Habitat Enhancement Biologist..	R. M. Biette.....	W-2312.....	7887
Aquatic Habitat Inventory			
Biologist.....	G. A. Goodchild.....	W-2312.....	7887
Inventory Data Systems &			
Lab Specialist.....	G. E. Gale.....	W-2312.....	7887
Aquatic Habitat Acidification			
Specialist.....	G. L. Beggs.....	W-2312.....	7887

Box 50, Maple, Ontario LOJ 1E0 Telephone (416) 832-2761

Fisheries Research Section.....	J. A MacLean, Spvr.....	Ext. 251
Secretary.....	M. Hirst.....	251
Age/Growth Studies &		
Environmental Stress.....	J. Casselman.....	251
Brook Trout Studies.....	J. H. Fraser.....	251
Community Dynamics.....	D. O. Evans.....	251
Stock Assessment &		
Genetics.....	P. Ihssen.....	251
Systems Ecology.....	B. Shuter.....	251
Population Ecology.....	B. Henderson.....	251
Salmonid Ecology.....	T. Kwain.....	251
Inland Lakes Research.....	L. Carl.....	251
Stock Dynamics.....	J. Reckhan.....	251

RESEARCH STATIONS

Fisheries Research Section.....	R. A. Ryder.....	(807) 683-6232
Box 5000, Thunder Bay, Ont	P. J. Colby.....	475-1635
P7C 5G6		
Sault Ste. Marie Research Stn....	.....	(705) 942-1411
875 Queen St. E.,		
Sault Ste. Marie, Ont. P6A 2B3		
South Baymouth Fisheries Lab.....	.....	(705) 859-3137
R.R. 1, Tehkummah, Ont. POP 2C0		
Wheatley Fisheries Research Stn..	S. J. Nepszy.....	(519) 825-4171
R.R. 2, Wheatley, Ont. NOP 2P0	J. H. Leach.....	4171
Glenora Fisheries Research Stn...	W. J. Christie.....	(613) 476-2400
R.R. 4, Picton, Ont. KOK 2T0	D. A. Hurley.....	2400
Harkness Lab (Algonquin Park)....	.....	(705) 637-2103
Box 110, Whitney, Ont. KOJ 2M0		

FISH PLANTINGS

Numbers in 000s of Fish (F) and Eggs (E)

Stocked from Ontario Fish Culture Stations (calendar year)

Species	E/F	1981	1982	1983	1984	1985
Coho Salmon	F	224	144	181	216	190
Chinook Salmon	F	12	270	222	685	703
Rainbow Trout	F	395	369	318	266	339
Brown Trout	F	-	71	134	165	166
Brook Trout	E	860	-	302	-	-
	F	1,459	824	1,757	1,127	1,138
Lake Trout	E	-	-	25	80	38
	F	2,636	2,517	1,874	2,959	3,240
Lake Trout Backcross	F	-	-	856	1,071	907
Splake	E	-	-	180	-	-
	F	684	927	104	205	351
Aurora Trout	F	30	-	21	10	11
Whitefish	F	-	13	15	15	32
Muskellunge	E	-	-	-	-	-
	F	791	1,146	902	1,290	1,470
Smallmouth Bass	F	160	-	-	136	4
Walleye	E	-	-	-	300	800
	F	29	31	156	354	2,296
Total		7,250	6,312	7,047	8,879	11,761

FISH STOCKING from Ontario Provincial Fish Culture Stations

For the fiscal year ending March 31, 1984

(E-Eggs)

Station	Species	Quantity	Weight (kg)
Codrington	Brown Trout	165,854	4,234
Chatsworth	Lake Trout	116,375	2,172
	Lake Trout Backcross	677,392	26,147
	Splake	823	1,120
	Whitefish	31,948	488
Deer Lake	Lake Trout	142,304	1,831
	Muskellunge	1,470,000	35
		76,000 E	
Dorion	Brook Trout	310,657	1,739
	Lake Trout	958,299	20,531
	Splake	43,180	273
Hill's Lake	Brook Trout	630,575	3,479
	Lake Trout	390,890	9,903
	Splake	45,850	583
Normandale	Rainbow Trout	220,822	3,569
North Bay	Brook Trout	800	91
	Lake Trout	45,722	560
		15,000 E	-
	Aurora Splake Trout	11,000	5
Pembroke	Brook Trout	55,850	606
	Lake Trout	146,170	3,043
Ringwood	Coho Salmon	183,195	4,110
	Chinook Salmon	584,095	3,071
Sandfield	Brook Trout	10	9
	Lake Trout	57,350	738
		38,000 E	-
	Lake Trout Backcross	295,808	6,240
	Smallmouth Bass	4,700	11
	Walleye	3,200	7
Skeleton Lake	Brook Trout	195,447	1,050
	Lake Trout	138,870	1,969
	Walleye	2,037,347	123
Tarentorus	Rainbow Trout	68,049	3,492
	Brook Trout	125,853	1,368
	Lake Trout	557,313	11,095
White Lake	Rainbow Trout	52,390	2,179
	Brook Trout	39,850	449
	Lake Trout	692,185	8,698
	Splake	45,400	281
	Walleye	404,826	219
		800,000 E	-
Total		12,030,941	
Tarentorus & white Lake			

PLEASE NOTE: Statistics for the 1985 Commercial Fish Harvest will not be available until October, 1986. For specific information, please contact Fisheries Branch, at 965-7885

EMPLOYMENT AND INVESTMENT IN COMMERCIAL FISHERY - 1984

Classification		Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron
Men employed	No.	285	714	22	74
FISHING BOATS					
12.2 m and over	No.	3	158	-	15
	tonnes	40	4,721	-	238
	Value \$	85,000	23,866,011	-	1,478,944
6.1 m to 11.9 m	No.	77	28	8	2
	Value \$	972,800	708,165	72,000	75,000
Under 6.1 m	No.	189	56	11	5
	Value \$	371,620	89,795	20,050	5,194
FISHING GEAR					
Gill Nets	Metres	1,104,800	9,987,193	-	432,200
	Value \$	775,587	7,168,985	-	514,767
Pound Nets	No.	-	43	180	-
	Value \$	-	80,300	156,000	-
Trap Nets	No.	112	284	140	118
	Value \$	84,600	1,216,000	31,500	230,941
Hoop Nets	No.	1,019	167	30	3
	Value \$	585,350	73,200	15,000	3,000
Seine Nets	Metres	2,396	4,033	4,379	-
	Value \$	19,600	55,000	17,300	-
Night Lines	No.	43,564	20,820	7,400	-
	Value \$	32,151	11,800	6,200	-
Dip Nets	No.	10	13	-	-
	Value \$	282	470	-	-
Trawl Nets	No.	-	336	-	-
	Value \$	-	776,085	-	-
Trammel Nets	Metres	-	20	-	-
	Value \$	-	13,800	-	-
SHORE INSTALLATIONS					
Freezers & Icehouses	No.	33	30	7	10
	Value \$	183,075	1,117,700	49,400	133,500
Piers & Wharves	No.	32	42	8	5
	Value \$	178,510	123,544	31,200	25,700
Net Sheds	No.	93	125	13	10
	Value \$	414,054	2,281,750	181,000	291,200
Miscellaneous	Value \$	637,850	56,500	-	-
NEW CAPITAL INVESTMENT					
Engines	Value \$	78,315	207,912	2,300	32,200
Hulls	Value \$	85,420	1,098,524	-	81,145
Fishing Gear	Value \$	163,016	1,293,363	2,580	47,641
Wheelhouse Equip	Value \$	10,850	186,419	-	22,889
Other Equipment	Value \$	6,170	-	-	-
TOTAL NEW CAPITAL INVESTMENT		343,771	2,786,218	4,880	183,875
TOTAL INVESTMENT		4,110,185	40,374,473	584,530	2,942,121

EMPLOYMENT AND INVESTMENT IN COMMERCIAL FISHERY - 1983

Classification	Georgian Bay	North Channel	Lake Superior	Northern Inland Waters	Southern Inland Waters	Total
Men Employed	38	32	21	382	20	1,588
FISHING BOATS						
12.2 m & over No.	9	6	9	8	-	208
tonnes	127	60	103	55	-	5,344
Value\$	477,684	290,000	500,000	321,000	-	27,018,639
6.1m to 11.9m No.	14	4	4	43	3	183
Value\$	157,700	13,500	33,100	315,166	12,000	2,359,431
Under 6.1m No.	22	10	11	209	12	525
Value\$	56,900	9,450	28,808	366,326	17,100	965,243
FISHING GEAR						
Gill Nets						
Meters	316,530	195,000	117,000	509,810	13,000	12,675,533
Value\$	294,600	85,930	92,900	332,922	10,850	9,276,541
Pound Nets						
No.	3	-	2	24	-	252
Value\$	4,500	-	6,000	192	-	246,992
Trap Nets						
No.	4	4	1	79	4	746
Value\$	5,000	2,000	2,000	103,510	4,600	1,680,151
Hoop Nets						
No.	1	7	1	53	128	1,409
Value\$	800	1,000	1,500	15,900	35,950	731,700
Seine Nets						
Metres	-	-	-	-	201	11,009
Value\$	-	-	-	-	1,100	93,000
Night Lines						
No.	-	-	-	-	1,600	73,384
Value\$	-	-	-	-	505	50,656
Dip Nets						
No.	-	-	4	22	-	49
Value\$	-	-	80	1,045	-	1,877
Trawl Nets						
No.	-	-	5	-	-	341
Value\$	-	-	10,000	-	-	786,085
Trammel Nets						
Metres	-	-	-	-	67	87
Value\$	-	-	-	-	600	14,400

	Georgian Bay	North Channel	Lake Superior	Northern Inland Waters	Southern Inland Waters	Total
SHORE INSTALLATIONS						
Freezers & No.	15	8	5	109	13	230
Icehouses Value \$	67,000	74,500	33,500	561,719	3,563	2,223,957
Piers & No.	7	4	9	80	4	191
Wharves Value \$	42,400	4,883	21,300	169,570	2,300	599,407
Net Sheds No.	10	10	8	69	10	348
Value \$	87,600	56,576	24,000	149,989	18,060	3,504,229
Misc. Value\$	-	-	-	80,000	-	149,435
NEW CAPITAL INVESTMENT						
Engines Value \$	2,826	400	6,658	58,893	3,850	393,354
Hulls Value \$	-	-	6,650	26,945	-	1,298,684
Fishing Gear Value \$	26,983	32,323	18,231	82,302	3,373	1,669,812
Wheelhouse Equip. Value \$	10,136	4,881	6,500	12,913	-	254,588
Other Equipment Value \$	-	-	650	-	-	6,820
TOTAL NEW CAPITAL INVESTMENTS	39,945	37,604	38,689	181,053	7,223	1,231,371
TOTAL INVESTMENT						
Georgian Bay	1,234,129					
North Channel	575,443					
Lake Superior	791,877					
Northern Inland Waters	2,598,392					
Southern Inland Waters	113,851					
TOTAL	53,325,001					

COMMERCIAL FISH INDUSTRY

Commercial Fish Harvest - January to December 1984

shown in kilograms and dollar value

Species	Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron	Georgian Bay
Bowfin	55	11,008	6,243	-	-
Bullhead	187,817	22,173	521	15	162
Burbot (ling)	-	494	-	11,967	3,592
Carp	36,924	40,861	27,925	12,446	1,218
Catfish	9,151	27,623	27,006	28,286	671
Chub (Deepwater Cisco)	-	-	-	454,456	179,055
Crappie	13,457	9,375	128	-	-
Eel	112,534	540	7	-	-
Lake Herring	1,987	-	-	1,861	11,449
Lake Trout	861	327	-	26,213	4
Lake Whitefish	32,984	5,372	-	895,579	59,171
Freshwater Drum	826	231,899	2,409	25,383	302
Northern Pike	1,228	6,487	1,221	154	1,437
Pacific Salmon	-	-	-	2,193	28
Rock Bass	8,208	12,051	1,102	1,739	453
Round Whitefish	-	4	-	5,511	8,387
Sauger	-	-	-	5	96
Shad	-	4,253	-	805	-
Smelt	15,028	7,468,616	-	301	788
Splake	-	-	-	-	8,095
Sturgeon	63	35	32	1,295	-
Sucker	30,785	7,842	6,125	24,921	12,188
Sunfish	60,330	30,823	6	2	-
White Bass	8,218	1,990,293	2,898	7,991	-
White Perch	30,152	320,303	198	154	-
Yellow Perch	381,009	4,092,461	2,123	211,563	31,971
Yellow Pickerel	556	1,864,574	69	128,669	4,909
Animal Food	28,926	296,608	-	58,662	465
Total Landings (kg)	961,099	16,444,022	78,013	1,900,171	324,441
Total Value (\$)	1,698,354	25,805,072	53,627	3,932,321	493,143

COMMERCIAL FISH INDUSTRY

Commercial Fish Harvest - January to December 1984

shown in kilograms and dollar value

Species	North Channel	Lake Superior	Northern Inland Waters	Southern Inland Waters	Total Landings (kg)	Total Value (\$)
Bowfin	-	-	-	-	17,306	6,566
Bullhead	-	-	53	3,757	214,498	197,171
Burbot (ling)	1,064	-	21,407	431	38,955	3,931
Carp	593	-	-	11,538	131,505	30,015
Catfish	140	-	18	3,606	96,501	98,555
Chub (Deepwater Cisco)	16	63,429	48,412	-	745,368	1,380,800
Crappie	4	-	7,163	1,141	31,268	80,751
Eel	-	-	-	800	113,881	225,724
Lake Herring	2,459	896,716	11	-	914,483	445,492
Lake Trout	437	145,577	19,159	-	192,578	386,307
Lake Whitefish	174,432	179,148	546,446	-	1,893,132	2,885,921
Freshwater Drum	-	-	-	-	260,819	50,440
Northern Pike	7,986	-	92,910	-	111,423	86,472
Pacific Salmon	315	-	-	-	2,536	4,998
Rock Bass	499	-	3	835	24,890	26,612
Round Whitefish	1,978	18,405	22	-	34,307	18,498
Sauger	-	-	14,799	-	14,900	27,075
Shad	-	-	-	-	5,058	318
Smelt	220	-	-	-	7,484,953	1,599,925
Splake	1,139	-	-	-	9,234	18,433
Sturgeon	-	-	6,515	-	7,940	37,316
Sucker	18,231	70,607	101,419	459	272,577	52,194
Sunfish	131	-	-	13,420	104,712	109,687
White Bass	-	-	-	93	2,009,493	1,878,271
White Perch	-	-	-	-	350,807	338,374
Yellow Perch	54,220	37,694	644	2,501	4,814,186	18,306,748
Yellow Pickerel	10,574	621	270,364	-	2,280,336	6,796,911
Animal Food	59,063	23,037	16,881	5,591	489,233	12,100

TOTAL LANDINGS (kg)

TOTAL VALUE (\$)

North Channel	333,501
Lake Superior	1,435,234
Northern Inland Waters	1,146,226
Southern Inland Waters	44,172
Total Landings	22,666,879
Total Value	-

609,151.00
1,124,474.78
1,336,872.84
52,591.26
-
35,105,606.46

ONTARIO COMMERCIAL FISH HARVEST

by species in 000s kg and \$000s

Species	1980	1981	1982	1983	1984	1984 Value
Bowfin	9	20	13	45	18	7
Bullhead	241	234	204	221	215	197
Burbot (ling)	108	182	81	72	39	4
Carp	121	208	158	181	132	30
Catfish	85	117	96	111	97	99
Chub (Deepwater Cisco)	446	394	308	520	746	1,381
Pacific Salmon	17	38	27	69	3	5
Eel	168	112	32	69	114	226
Freshwater Drum	179	257	230	188	261	51
Goldeye	-	-	-	-	-	-
Lake Herring (Cisco)	1,464	1,456	1,122	589	915	446
Lake Trout	278	227	258	262	193	387
Lake Whitefish	1,681	1,748	1,765	2,226	1,894	2,886
Northern Pike	267	296	321	278	112	87
Rock Bass & Crappie	75	64	58	78	57	108
Round Whitefish	75	57	35	27	35	19
Sauger	17	20	28	20	15	28
Smelt	11,336	13,944	19,611	13,316	7,585	1,600
Splake	39	57	40	29	9	19
Sturgeon	21	20	20	22	8	38
Sucker (Mullet)	563	606	626	484	273	52
Sunfish	118	126	130	111	105	110
White Bass	904	896	1,579	2,076	2,010	1,878
White Perch	57	47	39	74	351	339
Yellow Perch	6,236	4,784	4,962	3,473	4,814	18,307
Yellow Pickerel	1,343	1,476	1,368	1,841	2,281	6,797
Animal Food	637	772	688	828	490	12
Total Landings	26,485	28,158	33,799	27,210	22,672	
Total Landed Value	\$23,644	\$31,767	\$36,788	\$27,837		\$35,113

ONTARIO COMMERCIAL FISH HARVEST

by waters in 000s kg. and \$000s

Year	Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron	Georgian Bay
1980	891	19,490	37	1,083	361
1981	1,163	20,334	93	1,461	346
1982	939	26,989	153	1,324	269
1983	1,025	20,363	122	2,126	270
1984	961	16,444	78	1,900	325

Year	North Channel	Lake Superior	Northern Inland Waters	Southern Inland Waters	Total	Total \$
1980	158	2,151	2,080	234	26,485	23,644
1981	314	2,060	2,154	233	28,158	31,767
1982	322	1,515	2,091	197	33,799	36,788
1983	381	1,079	1,691	153	27,210	27,837
1984	334	1,435	1,146	44	22,667	35,106

LAKE ONTARIO COMMERCIAL FISH HARVEST

by species in 000s kg. and \$000s

Year	Bullhead and Catfish	Carp	Eel	Lake Herring	Smelt	Sunfish
1980	176	-	164	5	22	72
1981	154	73	109	2	34	60
1982	120	13	29	2	37	69
1983	141	43	67	3	44	58
1984	197	37	113	2	15	61

Year	White Perch	Yellow Perch	Other Species	Total	Total \$
1980	55	265	132	891	1,147
1981	48	563	120	1,163	1,930
1982	34	539	96	939	1,905
1983	29	580	60	1,025	1,880
1984	30	381	125	961	1,698

LAKE ERIE COMMERCIAL FISH HARVEST

by species in 000s kg. and \$000s

Year	Bullhead and Catfish	Carp	Freshwater Drum	Smelt	White Bass
1980	56	10	151	11,296	888
1981	76	15	212	13,790	881
1982	54	19	190	19,556	1,556
1983	70	89	145	13,270	2,060
1984	50	41	232	7,469	1,991

Year	Yellow Perch	Yellow Pickerel	Other Species	Total	Total \$
1980	5,674	800	615	19,490	14,024
1981	3,795	956	609	20,334	20,261
1982	4,134	909	571	26,989	26,183
1983	2,539	1,400	790	20,363	17,748
1984	4,093	1,865	703	16,444	25,805

LAKE ST. CLAIR COMMERCIAL FISH HARVEST

by species in 000s kg. and \$000s

Year	Bullhead and Catfish	Carp	Freshwater Drum	Northern Pike	Rock Bass & Crappie
1980	7	14	5	1	1
1981	22	34	11	1	1
1982	30	74	17	1	2
1983	26	19	16	2	3
1984	28	28	3	2	2

Year	Sucker	White Bass	Yellow Perch	Other Species	Total	Total \$
1980	5	2	-	2	37	23
1981	11	5	1	7	93	53
1982	15	8	1	5	153	77
1983	26	6	5	9	122	76
1984	6	3	2	4	78	78

LAKE HURON COMMERCIAL FISH HARVEST

by species in 000s kg. and \$000s

Year	Carp	Chub	Lake Herring	Lake Whitefish	Round Whitefish
1980	15	101	3	524	6
1981	14	219	3	594	4
1982	13	194	4	702	4
1983	12	252	11	1,300	4
1984	13	455	2	896	6

Year	Sucker (Mullet)	Yellow Perch	Yellow Pickerel	Other Species	Total	Total \$
1980	18	201	124	91	1,083	2,369
1981	49	246	124	208	1,461	3,255
1982	63	135	117	92	1,324	2,833
1983	30	227	129	161	2,126	4,231
1984	25	212	129	162	1,900	3,933

GEORGIAN BAY COMMERCIAL FISH HARVEST

by species 000s kg. and \$000s

Year	Carp	Chub	Lake Herring	Lake Whitefish	Round Whitefish
1980	7	77	20	88	15
1981	2	57	12	105	8
1982	2	57	12	77	9
1983	1	124	10	37	6
1984	2	179	12	60	9

Year	Sucker (Mullet)	Yellow Perch	Yellow Pickerel	Other Species	Total	Total \$
1980	41	36	11	66	361	505
1981	28	49	11	74	346	669
1982	20	39	9	44	269	504
1983	22	29	7	34	270	478
1984	12	32	5	14	325	493

NORTH CHANNEL COMMERCIAL FISH HARVEST

by species in 000s kg. and \$000s

Year	Smelt	Lake Whitefish	Northern Pike	Round Whitefish	Sturgeon
1980	-	73	6	1	4
1981	-	120	13	2	3
1982	-	171	9	1	2
1983	-	200	7	3	2
1984	-	175	8	2	-

Year	Sucker (Mullet)	Yellow Perch	Yellow Pickerel	Other Species	Total	Total \$
1980	34	7	13	20	158	279
1981	26	52	20	78	314	526
1982	27	39	20	53	322	618
1983	17	38	10	104	381	554
1984	19	55	11	64	334	609

LAKE SUPERIOR COMMERCIAL FISH HARVEST

by species in 000s kg. and \$000s

Year	Chub	Lake Herring	Lake Trout	Lake Whitefish	Smelt
1980	240	1,282	212	225	17
1981	91	1,327	176	173	42
1982	18	901	189	164	17
1983	31	563	185	133	-
1984	64	897	146	179	-

Year	Sucker (Mullet)	Yellow Perch	Yellow Pickerel	Other Species	Total	Total \$
1980	77	38	-	60	2,151	2,606
1981	110	61	-	80	2,060	2,246
1982	124	61	1	40	1,515	2,063
1983	105	40	-	22	1,079	1,297
1984	71	38	-	40	1,436	1,124

NORTHERN INLAND WATERS COMMERCIAL FISH HARVEST

by species in 000s kg. and \$000s

Year	Burbot	Chub	Lake Herring	Lake Trout	Lake Whitefish
1980	91	27	154	32	765
1981	169	26	106	18	745
1982	70	40	200	48	629
1983	58	112	-	18	539
1984	39	48	-	19	547

Year	Northern Pike	Sucker (Mullet)	Yellow Pickerel	Other Species	Total	Total \$
1980	226	337	337	111	2,080	2,533
1981	246	358	363	123	2,154	2,641
1982	275	341	311	177	2,091	2,426
1983	248	259	292	165	1,691	1,421
1984	93	102	271	46	1,147	1,337

SOUTHERN INLAND WATERS COMMERCIAL FISH HARVEST

by species in 000s kg. and \$000s

Year	Bullhead & Catfish	Carp	Lake Whitefish	Rock Bass & Crappie	Sucker (Mullet)
1980	57	71	-	4	15
1981	63	69	-	8	4
1982	63	34	-	11	19
1983	54	16	-	8	1
1984	8	12	-	3	1

Year	Sunfish	White Perch	Yellow Perch	Other Species	Total	Total \$
1980	29	2	11	45	234	157
1981	34	3	15	37	233	186
1982	34	1	10	25	197	181
1983	26	5	12	31	153	152
1984	14	-	3	3	44	53

EMPLOYMENT AND INVESTMENT IN ONTARIO COMMERCIAL FISHERY

Year	Employees	40' & Over	Under 40'	Gill M 000s	Pound Nets	Trap Nets	Hoop Nets
1980	1964	213	837	12,068	172	556	1630
1981	2043	237	885	12,616	160	689	1430
1982	2106	238	980	12,735	269	732	1504
1983	1981	251	770	12,579	207	776	1648
1984	1588	208	708	12,676	252	746	1409

Year	Seine M 00s	Freezers & Ice Houses	Wharves and Piers	Net Sheds	New Invest. \$000s	Total Value \$000s
1980	75	317	250	457	3,714	41,481
1981	77	291	275	476	5,447	54,676
1982	78	322	277	482	3,655	57,345
1983	89	277	243	444	3,327	58,775
1984	110	230	191	348	12,314	533,250

LANDS AND WATERS GROUP

Room W-6626, Main Office Telephone (416) 965-6045

Executive Co-ordinator.....	M. R. Garrett.....	W-6626.....6046
Administrative Assistant.....	Ms. H. Cobden.....	W-6623.....1075
Res. Economist.....	Dr. P. L. M. Warwick....	W-6625.....5067

LAND MANAGEMENT BRANCH

Room W-6643, Main Office Telephone (416) 965-1316

Branch Director.....	S. E. Yundt.....	W-6643.....1498
Secretary.....	Mrs. B. Bourne.....	W-6643.....1316
Admin. Asst.....	Mrs. B. Luksis.....	W-6643.....1316
Training Co-ordinator.....	C. Turnpenney.....	W-6644.....1607
Public Lands Section.....	J. Morton, Spvr.....	W-6603.....2741
Public Lands Management.....	L. Fleguel.....	W-6621.....4507
Water Power.....	W. P. Small.....	W-6621.....2743
Land Appraisals and Property Management Officer.....	J. Hogan.....	W-6629.....2742
Land Management Planning.....	N. C. Gordon.....	W-6604.....2742
Land Acquisition Officer.....	A. D'Angelo.....	W-6629.....2743
Mining Lands Section.....	J. C. Smith, Spvr.....	W-6602.....1380
Mining Lands Administrator.....	T. Soobrian.....	W-6610.....4888
Mining Lands Administrator.....	R. Pichette.....	W-6610.....4888
Titles Section.....	J. G. Sherman, Spvr.....	W-6645.....1319
Document Officer.....	C. D. Egerton.....	W-6645.....1319
Acreage Tax Administrator.....	Mrs. D. Holland.....	W-6645.....1319
Records Officer.....	R. E. Dixon.....	W-6645.....1319
Land Records Manager.....	V. Prasad.....	W-6645.....1319
Resource Access Section.....	P. Brook, Spvr.....	W-6646.....5735
Policy Development Officer.....	L. A. Jackson.....	W-6646.....5735
Aggregate Resources Section.....	D. Scott, Spvr.....	W-4646.....1172
Aggregate Enforcement Policy Advisor.....	J. Masham.....	W-4647.....3127
Aggregate Policy Development Officer.....	S. A. Buszynski.....	W-4645.....3127
Pits & Quarries Rehabilitation Specialist.....	B. Messerschmidt.....	W-4642.....3127
Projects Officer.....	G. Bell.....	W-4643.....3127
Fuel Minerals.....	S. Keen, Spvr.....	W-6641...3-1882
Senior Policy Advisor.....	J. N. Fox.....	W-6641...3-1882

PUBLIC LANDS in years ending March 31

Year	Patents		Leases		Licences of Occupation	
	No.	ha	No.	ha	No.	ha
1981	890	1,093	162	276	100	3,066
1982	690	2,385	211	448	113	845
1983	1,093	1,517	114	208	96	472
1984	1,324	8,674	110	365	90	106
1985	1,591	1,788	100	189	101	92
1986	1,030	5,363	74	68	84	550

LANDS ACQUIRED BY CROWN in years ending March 31

Year	Provincial Tax Forfeitures	Cancellation of Sales	Purchased or Otherwise Acquired	Forfeitures
	ha	ha	ha	ha
1981	1.20	0.16	703	3,600
1982	492	-	722	6,275
1983	661	-	1,402	4,047
1984	482	1	520	2,832
1985	757	-	711	4,047
1986	440	130	734	497

USE OF ACQUIRED LANDS areas in hectares, years ending March 31

Year	Provincial Parks	Lands General	Sport Fisheries	Wildlife Mgmt.	Timber Mgmt.	Total	Interim Property Mgmt.
	ha	ha	ha	ha	ha	ha	
1976	2,143	12	6	163	-	2,325	-
1977	630	140	81	248	2	1,101	35,424
1978	548	4.04	-	111	4,332	4,995	36,095
1979	2,028	79	-	-	3	2,110	34,715
1980	2,350	109	16	-	5	2,480	35,008
1981	549	-	51	3	100	703	34,692
1982	588	32	47	24	31	722	26,633
1983	261	56	146	213	726	1,402	25,113
1984	420	2	-	-	98	520	20,280
1985	504	79	4	101	23	711	13,687
1986	151	243	1	73	266	734	14,421

VALUE OF ONTARIO FUEL & STRUCTURAL MATERIALS OUTPUT BY MNR REGION

REGION	1983 \$	1984 \$
ALGONQUIN REGION		
Structural Materials	7,194,430	8,539,362
CENTRAL REGION		
Natural Gas, Petroleum	1,229,210	1,119,386
Structural Materials	304,650,987	358,368,545
	<hr/>	<hr/>
	305,880,197	359,487,931
EASTERN REGION		
Structural Materials	119,304,217	131,719,952
NORTH CENTRAL REGION		
Structural Materials	8,965,836	7,945,640
NORTHERN REGION		
Structural Materials	11,837,550	4,602,866
NORTHEASTERN REGION		
Natural Gas, Petroleum	3,420	-
Structural Materials	32,060,558	33,387,954
	<hr/>	<hr/>
	32,063,978	33,387,954
NORTHWESTERN REGION		
Structural Materials	7,140,509	11,301,325
SOUTHWESTERN REGION		
Natural Gas, Petroleum	60,808,340	84,622,963
Structural Materials	147,593,421	165,830,847
	<hr/>	<hr/>
	208,401,761	250,453,810
ONTARIO TOTAL	700,788,478	807,438,840

ONTARIO FUELS & STRUCTURAL MATERIALS PRODUCTION IN 1984 AND 1985

			1984		1985
	Unit	Quantity	Value	Quantity	Value
<hr/>					
FUELS					
Natural Gas	000 cu.m.	548,169	68,466,289	589,863	73,143,000
Petroleum	cu.m.	90,375	17,276,060	112,953	24,737,000
			<hr/>		<hr/>
Total Value, Fuels			85,742,349		97,880,000
 STRUCTURAL MATERIALS					
Clay Prod.	-	N/A	82,671,246	N/A	91,725,000
Cement	tonne	3,582,611	225,320,319	3,871,000	292,225,000
Lime	tonne	1,646,615	98,100,718	1,647,000	98,821,000
Sand & Gravel	tonne	57,419,176	136,124,510	69,250,000	167,400,000
Stone	tonne	41,386,602	179,479,698	40,000,000	175,000,000
Total Value, Structural Materials			721,696,491		825,171,000
			<hr/>		<hr/>
GRAND TOTAL FOR ONTARIO			4,420,324,925		4,383,849,000

N.B. Source of statistics is 1985 Ontario Mineral Score, published by Mineral Statistics Section, Ministry of Northern Development and Mines.

1985/86 M.N.R. ROADS PROGRAM

REGION	kms Con./Recon.	Bridges Con./Recon	Expenditures (\$000s)	kms Maintained	Expenditures (\$000s)
Northwestern	7.2	-	143.5	495.8	375.6
North Central	71.6	3	1,235.6	1,140.9	480.9
Northern	17.0	-	385.3	743.2	658.5
Northeastern	3.2	22	1,046.0	1,516.8	453.9
Sub Totals	99.0	25	2,810.4	3,896.7	1,968.9
Algonquin	3.0	-	55.0	616.6	365.1
Eastern	-	-	-	448.0	134.9
Central	5.7	-	34.1	121.6	62.4
Southwestern	-	-	-	33.6	6.2
Sub Totals	8.7	-	89.1	1,219.8	568.6
PROVINCIAL TOTALS	107.7	25	2,899.5	5,116.5	2,537.5

Program includes: Forest Access, Agreement Forest, Cottage Access, Ministry Service, Recreation, Public Transport and Private Forest Roads.

1985/86 NORTHERN ONTARIO RESOURCES
TRANSPORTATION COMMITTEE - DIRECT PROGRAM (MNR portion only)

REGION	kms Con./Recon.	Bridges Con./ Recon.	Expendi- tures (\$000s)	kms Main- tained	Expendi- tures (\$000s)	kms Winter Road	Expendi- tures (\$000s)
Northwestern	14.7	1	\$1,229.4	78.0	\$39.1	235.0	\$376.4
North Central	-		28.6*	-	-	-	-
Northern	8.1	-	1,100.7	-	-	290.0	153.8
Northeastern	-	-	-	12.0	23.7	-	-
TOTAL	22.8	1	\$2,358.7	90.0	\$62.8	525.0	\$530.2

* Pre-engineering work

1985/86 NORTHERN ONTARIO RESOURCES TRANSPORTATION
COMMITTEE - INDIRECT PROGRAM (COMPANY) - (MNR Portion Only)

REGION	kms Con./Recon	Bridges Con./Recon.	Expenditures (\$000s)
Northwestern	17.2	-	\$189.0
North Central	10.9	-	205.8
Northern	-	-	13.5*
Northeastern	46.0	-	287.7
Algonquin	4.8	-	26.0
TOTAL	78.9	-	\$722.0

\$15.0 expenditure for Snowmobile Trails

TOTAL N.O.R.T.C. EXPENDIURE - \$3,688.7

* Pre-engineering work

1985/86 FOREST MANAGEMENT
SUBSIDIARY AGREEMENT PROGRAM*

CROWN PROJECTS			
REGION	kms Con./Recon.	Bridges Con./Recon.	Expenditures (\$000s)
Northwestern	31.8	-	3,646.4
North Central	21.2	-	4,458.8
Northern	-	-	-
Northeastern	10.4	-	1,500.7
Contract Staff	-	-	64.5
TOTAL	63.4	-	\$9,670.4
COMPANY PROJECTS			
REGION	kms Con./Recon.	Bridges Con./Recon.	Expenditures (\$000s)
Northwestern	-	-	-
North Central	-	-	-
Northern	23.3	-	325.1
Northeastern	-	-	-
TOTAL	23.3	-	\$325.1
TOTAL PROGRAM	86.7	-	\$9,995.5

* FMSA Program is co-funded by the federal and provincial governments.

1985/86 FOREST MANAGEMENT AGREEMENT PROGRAM*
(Partially Funded by BILD)

REGION	kms Con./Recon.	Expenditures (\$000s)	kms Maintained	Expenditures (\$000s)
Northwestern	256.0	7,466.4	334.0	199.8
North Central	380.0	9,193.3	776.0	318.6
Northern	558.0	14,543.5	1,595.0	709.0
Northeastern	171.0	3,460.1	437.0	194.3
TOTAL	1,365.0	\$34,663.3	3,142.0	\$1,421.7

The FMA Program is funded in accordance with agreements between MNR and forest companies.

1985/86 RESOURCE ACCESS PROGRAM SUMMARY
MNR ROAD & BRIDGE CONSTRUCTION & MAINTENANCE

Crown	MNR Roads Program	NORTC Program	FMSA Program	FMA Program	Totals
Road Con./ Recon. (kms)	107.7	22.8	63.4	-	193.9
	25 Bridges	1 Bridge			26 Bridges
Expenditures (\$000s)	\$2,899.5	\$2,358.7	\$9,670.4	-	\$14,928.6
Road Main- tained (kms)	5,116.5	90.0	-	-	5,206.5
Expenditures (\$000s)	\$2,537.5	\$ 62.8	-	-	\$ 2,600.3
Winter Roads Maintained (km)	-	525.0	-	-	525.0
Expenditures (\$000s)	-	\$ 530.2	-	-	\$ 530.2

ROADS & BRIDGES CONSTRUCTED & MAINTAINED
BY COMPANIES UNDER AGREEMENT

Company	NORTC Program	FMSA Program	FMA Program	Totals
Road Con./ Recon. (kms)	78.9	23.3	1,365.0	1,467.2
Expenditures (\$000s)	\$722.0	\$ 325.1	\$34,663.3	\$35,710.4
Road Main- tained (kms)	-	-	3,142.0	3,142.0
Expenditures	-	-	\$1,421.7	\$1,421.7

Lands and Waters Group

SURVEYS AND MAPPING BRANCH

Room W-3440, Main Office Telephone (416) 965-6225

Branch Director..... Dr. J. M. Zarzycki..... W-3448...5-6225

Geographical Information Services

A/General Manager..... Z. Jiwani..... W-3425...5-4538

Co-ordinator, Digital Mapping & GIS..... G. R. Zillmer..... W-3427...5-2779

GIS Analyst..... C. Broughton..... W-3423...3-2198

Surveying Services

Surveyor General..... S. B. Panting..... W-3446...5-2714

Surveys Manager..... D. E. Norris..... W-3449...5-2714

Asst. Mgr. Technical Services.. J. A. MacIntosh..... W-3447...5-2714

Asst. Mgr. Legal Descriptions & Research..... R. F. Weatherbe..... W-3442...5-2714

Legal Description & Research Officer..... C. S. Kliaman..... W-3442...5-2714

Senior Survey Plan Examiner.... R. A. Stocker..... W-3303...5-2716

Survey Records Information..... D. E. Jeanes..... W-3424...5-1416

Geographic Names Manager..... M. B. Smart..... W-2601...5-6515

Geodetic Surveys, A/Manager.... K. M. Kelly..... W-3427...5-3005

Control Survey Data Analyst.... A. L. Harrison..... W-3427...5-3005

Control Survey Data Technician. E. P. Marshall..... W-3427...5-3005

Mapping Services, General Manager C. T. Osborne..... W-4620...5-4941

Basic Mapping Manager..... B. Jackson..... W-4620...5-1208

Cartographic Services..... F. W. Dawson..... W-4620...5-4743

Drafting Services Manager..... D. W. Robeson..... W-2540...5-1823

Chief Contract Monitor..... R. Audas..... W-2640...5-0293

Ontario Centre for Remote Sensing

880 Bay Street, Toronto, Ont. M5S 1Z8

Associate Director..... V. Zsilinszky.....5-8411

Chief Scientist..... Dr. S. Pala.....5-8411

Senior Scientist..... A. Jano.....5-8411

Staff Scientist..... R. Mussakowski.....5-8411

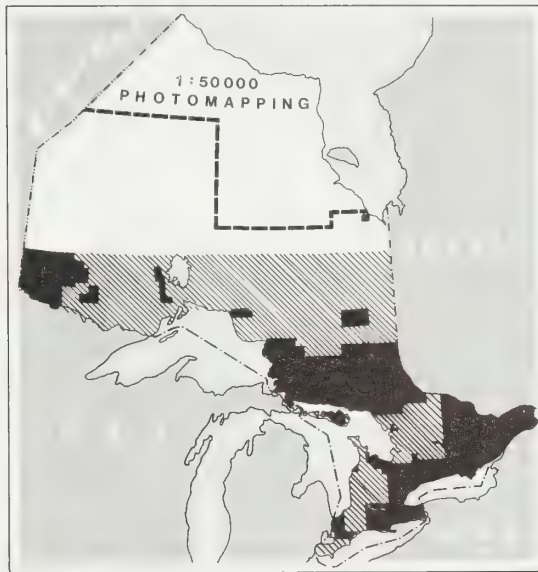
Staff Scientist..... T. Ellis.....5-8411

Research Officer, Engineering.. V. Singhroy.....5-8411

Airborne Program Co-ordinator.. I. Ross.....5-8411

Airborne Program Specialist.... E. Senese.....5-8411

Photo Research Lab Supervisor.. D. Klimes.....5-8411



MAPPING SERVICES ONTARIO BASIC MAPPING

1:20 000 , 1:10 000 scales

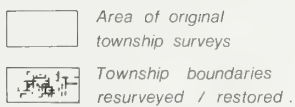


1:2 000 scale

141 Municipalities completed

12 Municipalities in progress

SURVEYING SERVICES



10023.00 kms completed .



SURVEYING SERVICES

Township Boundary Resurvey Program

Year	Km. Resurveyed
<hr/>	
1961-62	334.34
1962-63	277.93
1963-64	276.89
1964-65	604.39
1965-66	601.94
1966-67	466.07
1967-68	419.07
1968-69	442.59
1969-70	424.87
1970-71	494.71
1971-72	529.47
1972-73	388.93
1973-74	306.95
1974-75	395.11
1975-76	277.82
1976-77	324.82
1977-78	328.31
1978-79	494.39
1979-80	525.29
1980-81	461.72
1981-82	407.57
1982-83	405.30
1983-84	307.50
1984-85	276.00
1985-86	251.60
<hr/>	
Total	10,023.00
<hr/>	

CROWN LAND SURVEY PLAN EXAMINATIONS

Year	No. Plans Examined
1979-80	317
1980-81	323
1981-82	641
1982-83	791
1983-84	831
1984-85	501
1985-86	448

DESCRIPTIONS PREPARED

Year	No. Descriptions Prepared
1979-80	903
1980-81	779
1981-82	1,052
1982-83	1,585
1983-84	2,119
1984-85	1,618
1985-86	2,030

PROVINCIAL HORIZONTAL CONTROL SURVEY

Data Base COSINE

Year	Stations Loaded
1981-82	10,000
1982-83	13,000
1983-84	11,000
1984-85	3,000
1985-86	3,000
Total	40,000

PRECISE CALIBRATION BASELINE INSTALLATION

Year Installed	Baseline Name
1977-78	Mississauga
1979-80	Scarborough
1980-81	Burlington
1981-82	London
1982-83	Belleville
1983-84	Lindsay & Conestoga
1985-86	Thunder Bay

Lands and Waters Group

OFFICE OF INDIAN RESOURCE POLICY

Room 6527, Whitney Block Telephone (416) 965-6045

Director.....	E. G. Wilson.....	W-6527.....6045
Secretary.....	S. W. Ko.....	W-6527.....6045
Indian Resource Policy Advisor...	J. F. Gosnell.....	W-6529.....5201
Clerk Steno.....	V. Zoras.....	W-6529.....5201
Senior Indian Land Claims		
Researcher.....	D. T. McNab.....	W-6526.....5201
Indian Land Claims Researcher....	L. C. Hansen.....	W-6530.....5201
Indian Land Claims Researcher....	G. C. Jones.....	W-6530.....5201
Indian Land Claims Researcher....	D. J. Doxtator.....	W-6530.....5201
Clerk Steno.....	P. Williams.....	W-6530.....5201

Lands and Waters Group

CONSERVATION AUTHORITIES AND
WATER MANAGEMENT BRANCH

Section 6, 5th Floor, Main Office Telephone (416) 965-6285

Branch Director.....	M. G. Lewis.....	W-5620.....6287
CONSERVATION AUTHORITIES SECTION		
Manager.....	R. D. Hunter.....	W-5620.....6285
Co-ordinator, Technical Systems..	G. S. Sardesai.....	W-5620.....6275
Administrative Assistant.....	Mrs. D. Green.....	W-5620.....6270
Planning Systems Co-ordinator....	T. E. Farrell.....	W-5620.....6286
Librarian.....	Ms A. Perrigo.....	W-5641.....4481
Supervisor, Program		
Implementation and Evaluation....	G. W. Price.....	W-5620.....6285
Head, Conservation and		
Recreation Land Mgmt. Program..	R. J. Dickie.....	W-5620.....1573
CA Transfer Payment		
Co-ordinator	Mrs. M. E. Willard.....	W-5620.....7694
Special Employment Co-ordinator	Mrs. S. E. Court.....	W-5641.....1799
TECHNICAL SERVICES SECTION		
Manager.....	R. B. Chang (acting).....	W-5620.....6295
Flood Damage Reduction Program		
Co-ordinator.....	Mrs. C. T. Kowalyk.....	W-5620.....6281
Supervisor, Streamflow		
Forecast Centre.....	P. N. Gryniewski.....	W-5636.....6292
Head, Hydrometeorological Unit	R. A. Fox.....	W-5636.....6293
Emergency Mgmt. Co-ordinator..	L. J. Balogh.....	W-5636.....6277
Senior Policy Advisor,		
Water Management.....	.....	W-5620.....6281
Supervisor, Models and		
Consultative Services.....	R. M. Odell (acting).....	W-5620.....1271
Head, Model Development.....	J. Y. Ding.....	W-5641.....1271
Models Specialist.....	.....	W-5641.....1271
Water Resource Engineer.....	D. L. Strelchuk.....	W-5620.....1271

GRANTS TO CONSERVATION AUTHORITIES
UNDER THE CONSERVATION AUTHORITIES ACT

in years ending March 31

Year	Administration	Water and Related Land Mgmt	Conservation and Recreation Land Mgmt	Lake Ontario Waterfront	Total
1980	\$4,756,983	\$20,466,353	\$3,404,736	\$1,530,000	\$30,158,072
1981	5,202,220	27,724,128	3,436,411	1,500,342	37,863,102
1982	5,517,581	26,496,443	2,953,315	1,469,780	36,437,119
1983	6,591,399	26,693,614	3,130,218	1,574,000	40,989,231
1984	7,098,874	26,852,944	3,751,372	-	37,703,190
1985	7,483,719	25,023,841	4,223,991	-	36,731,551
1986	7,824,046	24,695,257	4,380,850	-	36,900,153

Sources of Funding (1984):

Total Provincial Government Grants	43,816,765
Federal Government Grants	5,839,767
Total Municipal Levies	28,524,712
Authority Generated Revenues	17,383,996
TOTAL	95,565,240

GENERAL INFORMATION

Number of Conservation Authorities established in Ontario	38
Number of square kilometres within the jurisdiction of conservation Authorities	112,861
Municipalities participating in one or more Conservation Authorities	Regional 11 Local 497
Members appointed to Conservation Authorities	Elected 560 Non-elected 362
Staff Positions	Permanent 882 Casual 1,815 Special Employment 2,587

1984 RECREATIONAL PROGRAMS:

Gross Revenues from Recreation Programs	7,070,416
Operating Expenses re: Recreational Programs	9,657,546
Net Cost of Recreational Programs	2,587,130

PUBLIC RECREATIONAL USE OF CONSERVATION AREAS, 1984

Group Camping Nights	52,196
Family Camping Nights	1,199,327
Day Use	4,396,553

CONSERVATION SERVICES PROGRAM 1984

Number of landowners provided with direct technical assistance	2,362
Number of trees and shrubs planted	2,436,530

FLOOD CONTROL MEASURES IMPLEMENTED:

No. of metres of stream channel constructed	1984	4,880
	prior to 1984	197,790
No. of metres of watercourses dyked	1984	4,390
	prior to 1984	67,524

EROSION CONTROL MEASURES IMPLEMENTED

No. of metres of erosion control measures constructed	1984	13,477
	prior to 1984	75,124

FLOOD PLAIN MAPPING AND FILL LINE MAPPING COMPLETED

km of watercourses mapped for <u>both</u> flood plain <u>and</u> fill line delineations	1984	541
	prior to 1984	9,642
km of watercourses mapped for flood plain delineation <u>only</u>	1984	412
	prior to 1984	1,076
km of watercourses mapped for fill line delineation <u>only</u>	1984	504
	prior to 1984	7,466

CURRENT, FEE SIMPLE LAND OWNERSHIP BY
CONSERVATION AUTHORITIES TO 1984

Flood Plains	24,732 ha
Shorelines	2,967 ha
Wetlands	14,255 ha
Agreement Forests	38,181 ha
Non-agreement Forests	13,120 ha
Wildlife Areas	8,121 ha
Recreation Lands	19,904 ha
Other	7,132 ha

GRAND TOTAL	128,412 ha
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MUNICIPAL PLAN INPUT AND REVIEW 1984

No. of documents reviewed:	
Official Plans	1,346
Zoning Bylaws	6,018
Subdivisions	585
Minor Variances/Consents	11,095
Development Control	1,483
Property Clearances	11,235

FILL AND CONSTRUCTION REGULATION ENFORCEMENT 1984

No. of permits granted	2,438
No. of permits refused	103
No. of violation notices issued	194
No. of appeals to Ontario Mining and Lands Commissioner	15

AVIATION AND FIRE
MANAGEMENT CENTRE

Box 310, Sault Ste. Marie, Ontario P6A 5L8
Telephone (705) 942-1800
Telex 067-77166 (Aviation), 067-77134 (Fire Management)

Director.....	J. F. Goodman.....	(705) 942-1800
Secretary.....	H. S. Paciepnik.....	1800
Co-ordinator, Management & Planning.....	G. E. Doan.....	1800
Communications Officer.....	R. A. Thomas.....	1800
Finance and Administration Spvr..	W. A. Sinclair.....	1800
Purchasing Officer.....	E. M. Esson.....	1800
Fire Management Section		
Assistant Director, Fire.....	.....	1800
Provincial Fire Operations.....	J. G. Minor, Spvr.....	1800
Provincial Fire Centre Manager.	G. O. Koistinen.....	1800
Research & Development.....	P. C. Ward, Spvr.....	1800
Systems Co-ordinator.....	R. Cote.....	1800
Fire Management Education		
Co-ordinator.....	R. B. Little.....	1800
Aviation Section		
Assistant Director, Aviation...	R. J. Kincaid.....	1800
Chief Pilot.....	A. L. Stewart.....	1800
Maintenance Superintendent.....	G. Willoughby.....	1800
Assistant Supt. Maintenance		
Airframe Section.....	G. Larocque.....	1800
Engine Section.....	P. F. Holder.....	1800
Quality Control Inspector.....	J. S. Denley.....	1800
Communications Section		
Communications Supervisor.....	H. Kling.....	1800
Avionics Co-ordinator.....	P. Quinn.....	1800
Ground Communications Supvr.....	J. Tidman.....	1800
Executive Flight Operations, Malton		
Flight Operations Manager.....	W. C. Clarke.....	(416) 678-1173
Assistant Manager,		
Flight Operations.....	H. MacMillan.....	(416) 678-1173
Regional Pilot.....	A. H. Bieck.....	(416) 678-1173
China Project		
Canadian Project Director.....	M. F. Rush.....	(705) 942-1800

FOREST FIRE RECORD

Areas in hectares

Year	Damage \$	Private Property Damage \$	Area Burned Over			Number of Fires	Area per Fire
			Crown	Private	Total		
1917	-	-	-	-	155,466	1,110	140
1918	-	-	-	-	12,210	965	12
1919	-	-	-	-	373,186	1,780	210
1920	-	-	-	-	145,222	1,287	113
1921	-	-	-	-	303,326	1,269	239
1922	-	-	-	-	140,099	1,021	151
1923	-	-	-	-	857,995	1,343	639
1924	-	-	-	-	55,091	851	69
1925	-	-	-	-	76,705	1,149	67
1926	-	-	26,664	9,100	35,764	1,110	32
1927	-	-	9,216	5,248	14,464	924	16
1928	-	-	39,026	1,598	40,624	536	76
1929	-	-	246,353	6,836	253,189	1,550	163
1930	-	-	144,688	143,371	288,059	1,402	206
1931	-	-	42,843	13,120	55,963	1,851	30
1932	-	-	253,558	21,232	274,790	2,073	133
1933	-	-	131,537	10,086	141,623	1,919	74
1934	-	-	64,891	15,493	80,384	1,568	51
1935	-	-	74,090	27,309	101,439	1,309	77
1936	-	-	466,957	44,741	511,698	2,264	226
1937	-	-	81,701	9,251	90,952	1,453	63
1938	-	-	38,918	17,028	55,946	1,292	43
1939	-	-	10,558	1,218	11,776	961	12
1940	-	-	40,869	8,346	49,215	1,014	49
1941	-	-	109,991	159,751	269,742	1,265	213
1942	-	-	31,448	14,571	46,019	1,224	38
1943	-	-	13,543	7,831	21,374	624	34
1944	-	-	29,635	38,713	68,348	1,137	60
1945	-	-	7,283	12,348	19,631	966	20
1946	-	-	18,072	12,995	31,877	1,739	18
1947	-	-	15,416	18,591	34,007	1,393	24
1948	-	-	345,917	65,806	411,723	2,036	202
1949	-	-	16,427	7,880	24,307	1,834	13
1950	55,148	103,682	5,343	9,541	14,884	985	15
1951	389,447	56,389	39,118	1,854	40,972	904	45
1952	29,504	31,347	2,940	2,087	5,027	1,095	4
1953	393,874	81,778	18,016	5,782	23,508	1,520	16
1954	406,241	15,650	14,615	7,518	22,133	881	25
1955	3,591,680	184,940	150,118	10,309	160,427	2,252	71
1956	3,068,152	22,319	89,768	1,777	91,545	1,017	90

Year	Damage	Private Property Damage	Area Burned Over			Number of Fires	Area per Fire
			Crown	Private	Total		
1957	463,059	113,751	9,814	9,065	18,879	1,671	11
1958	311,503	97,036	10,337	4,496	14,833	1,558	10
1959	22,041	20,757	1,044	1,093	2,137	1,029	2
1960	438,094	56,442	11,813	888	12,701	956	13
1961	31,989,802	152,639	477,894	1,549	479,433	1,305	367
1962	74,748	99,165	3,069	2,517	5,586	1,521	4
1963	706,888	39,932	16,467	6,251	22,718	1,885	12
1964	500,296	19,792	9,090	2,291	11,381	1,829	6
1965	386,850	254,105	6,068	1,987	8,055	1,218	6
1966	71,521	49,457	3,421	2,413	5,834	1,921	3
1967	1,353,919	87,638	23,768	1,930	25,698	1,465	17
1968	4,174	54,146	1,078	2,751	3,829	1,219	3
1969	134,756	4,623	1,813	669	2,482	901	3
1970	1,323,041	28,815	-	-	23,527	1,239	18
1971	462,064	75,875	-	-	14,649	1,790	8
1972	1,081,876	47,446	-	-	32,029	1,604	20
1973	11,944	121,900	2,417	1,190	3,607	1,111	3
1974	12,063,428	239,384	522,641	1,346	523,987	1,625	323
1975	683,726	340,414	11,226	5,630	16,856	3,146	5
1976	26,839,738	930,514	536,529	7,578	544,107	3,985	136
1977	11,190,900	252,565	411,752	4,564	416,316	2,049	203
1978	165,267	139,386	7,040	483	7,523	940	8
1979	2,310,161	60,032	63,322	393	63,715	1,564	41
1980	72,094,096	3,254,443	524,893	35,847	560,740	1,779	315
1981	9,171,418	60,906	173,479	5,994	179,473	1,656	108
1982	116,695	71,068	2,555	1,337	3,892	1,396	3
1983	15,230,649	352,210	442,156	1,499	443,655	2,244	198
1984	787,487	652,985	118,851	1,567	120,418	1,240	97
1985	69,552	319,329	682	325	1,007	887	1

1985 FOREST FIRES BY DISTRICT

District	Number of Fires	Hectares Burned Over	ha per Fire
Dryden	16	1.7	.1
Fort Frances	12	30.7	2.6
Ignace	11	2.8	.3
Kenora	70	21.1	.3
Red Lake	39	29.4	.8
Sioux Lookout	19	30.9	1.6
Atikokan	17	2.8	.2
Geraldton	19	10.0	.5
Nipigon	17	49.5	2.9
Terrace Bay	12	14.0	1.2
Thunder Bay	39	45.0	1.2
Chapleau	26	11.1	.4
Cochrane	18	14.7	.8
Gogama	10	26.5	2.7
Hearst	10	13.3	1.3
Kapuskasing	7	21.5	3.1
Kirkland Lake	27	139.7	5.2
Moosonee	3	40.7	13.6
Timmins	12	57.0	4.8
Blind River	14	4.9	.4
Espanola	27	12.4	.5
North Bay	31	14.6	.5
Sault Ste. Marie	5	.6	.1
Sudbury	97	82.8	.9
Temagami	20	17.3	.9
Wawa	18	26.8	1.5
Algonquin Park	35	46.7	1.3
Bancroft	17	6.8	.4
Bracebridge	23	15.2	.7
Minden	19	5.7	.3
Parry Sound	31	8.5	.3
Pembroke	48	30.6	.6
Carleton Place	16	6.6	.4
Tweed	77	137.7	1.8
Huron	4	.9	.2
Lindsay	12	9.6	.8
Owen Sound	9	16.5	1.8
TOTAL	887	1,006.6	1.1

1985 FOREST FIRES BY MONTH

Month	Number of Fires	Hectares Burned Over	ha per Fire
March	10	11.2	1.1
April	112	198.0	1.8
May	225	333.2	1.5
June	130	139.3	1.1
July	231	151.2	.7
August	114	57.9	.5
September	49	18.9	.4
October	8	45.0	5.6
November	7	51.8	7.4
December	1	.1	.1
TOTAL	887	1,006.6	1.1

DETECTION OF FOREST FIRES

Agencies	1981	1982	1983	1984	1985
Ministry Aircraft	394	230	595	169	118
Total Organized Detection	394	230	595	169	118
Public	1,062	1,038	1,277	948	702
Other Aircraft	200	128	372	123	67
Total Random Detection	1,262	1,166	1,649	1,071	769
Total Fires	1,656	1,396	2,244	1,240	887
Percentage Organized Detection	24	17	27	14	13

SIZES OF FOREST FIRES

Area Burned Over	1985
Up to .2 hectares	467
.2 to 4.0 hectares	382
4.0 to 40 hectares	35
40 to 200 hectares	3
Over 200 hectares	-
Total Fires	887

PROSECUTIONS

Actions re: Forest Fires	1981	1982	1983	1984	1985
Prosecutions	46	72	89	78	56
Convictions	40	68	82	73	54

CAUSES OF FOREST FIRES - I

General Causes	1981	1982	1983	1984	1985
Recreation	493	517	494	276	229
Resident	150	224	181	221	165
Incendiary	59	39	48	69	27
Railways	153	160	161	94	122
Industry (Forest)	36	11	36	21	31
Industry (Other)	38	22	25	45	29
Miscellaneous (Known)	209	156	178	199	93
Unknown	33	30	31	29	22
Lightning	485	237	1,090	286	169
Total Fires	1,656	1,396	2,244	1,240	887

CAUSES OF FOREST FIRES - II

Source of Ignition	1981	1982	1983	1984	1985
Smoking Materials	285	323	250	136	121
Camp Fires	251	243	274	157	124
Matches	109	105	94	98	57
Fireworks	2	1	2	-	-
Explosives	2	-	1	-	-
Fusee	10	9	3	5	6
Prescribed Burning	3	3	2	1	-
Dump Ashes, Coals	6	9	7	6	13
Burning Grass	46	73	38	44	34
Burning Brush	36	37	52	55	56
Burning Rubbish	17	44	31	35	24
Burning Garbage Dump	15	23	34	33	18
Burning Bulldozed Pile	4	-	3	3	3
Burning Sawdust Pile	2	2	-	3	2
Burning Ties	16	19	9	12	9
Burning Right-of-Way	10	20	9	8	14
Locomotive, Diesel	38	27	35	14	7
Locomotive, Steam	-	-	-	-	-
Brake Shoe	47	44	61	30	37
Overheated Journal Box	2	-	2	-	4
Rail Grinding	-	-	13	7	22
Power Saw	7	2	3	4	3
Mechanical Equip. (Other)	49	34	30	12	23
Mechanical Equipment (Scarification)	-	-	9	6	3
Power Line (Short)	21	15	32	114	28
Sparks from Chimney	-	2	1	2	1
Sparks from Burner	1	1	1	1	-
Structural Fires	11	11	16	8	12
Miscellaneous (Known)	54	23	26	32	20
Unknown	129	91	116	128	77
Lightning	483	235	1,090	286	169
Total Fires	1,656	1,396	2,244	1,240	887

CAUSES OF FOREST FIRES - III

Responsible Groups	1981	1982	1983	1984	1985
RECREATION					
Fishermen	184	158	161	110	82
Hunters	25	16	13	15	17
Canoeists	23	45	37	22	19
Campers	48	61	69	28	25
Picnickers	10	14	20	1	6
Berry Pickers	105	141	91	38	20
TRAVELLERS					
Car Passengers	96	76	61	35	36
Hikers	28	25	28	10	15
Train Passengers	1	-	-	1	1
Guided Parties	2	2	-	-	-
RESIDENTS					
Farmers	18	26	26	17	19
*Rural Residents	104	152	137	173	116
Urban Residents	8	12	13	5	8
Private Cottagers	32	34	44	42	27
Resort Owners	5	2	-	5	3
VOCATION					
Trappers	1	-	-	1	1
Prospectors	2	1	2	4	1
Timber Cruisers (not MNR)	-	-	-	-	2
Survey Parties	-	-	-	-	-
Military	1	1	-	-	-
EMPLOYEE OF					
Woods Industry	31	12	33	16	29
Mining	9	1	4	1	3
Pipeline	-	-	-	-	1
Hydro	3	2	4	5	6
Telephone	1	-	1	-	-
Highway or Road	1	1	1	1	1
R. R. Section Crew	22	39	25	16	25
R. R. Train Crew	24	24	21	17	33
R. R. Work Crew	102	94	110	57	61
Other Industry	17	12	9	11	9
Natural Resources	34	17	6	10	4
Other Prov. Government	1	-	1	-	-
Federal Government	-	-	1	-	-
Municipality	3	6	5	2	2
MISCELLANEOUS					
Children	77	68	76	82	42
Youth Camps	3	-	6	3	2
Miscellaneous (Known)	40	24	66	134	41
Unknown	112	94	83	92	61
Total Human-Caused Fires					
	1,173	1,160	1,154	954	718
Percentage of All Fires					
	71	83	51	77	81

*Note: Indians (on Reserves) has been deleted under Residents. These fires for previous years 1981-84 should now be shown under Rural Residents.

1985 PRESCRIBED BURNING SILVICULTURE, HAZARD REDUCTION, MISC.

<u>District</u>	<u>Burns</u>	<u>Hectares</u>
Fort Frances	2	589.0
Geraldton	2	1,363.0
Nipigon	1	240.0
Terrace Bay	1	140.0
Chapleau	4	1,480.0
Cochrane	2	864.0
Gogama	1	360.0
Hearst	4	2,283.8
Kapukasing	2	321.0
Kirkland Lake	1	155.0
Timmins	2	540.0
Blind River	5	862.0
Espanola	1	37.5
North Bay	1	17.0
Sault Ste. Marie	3	235.0
Sudbury	2	360.0
Temagami	1	275.0
Bancroft	1	30.0
Bracebridge	1	24.4
Tweed	2	343.0
Chatham	1	68.0
Huron	1	26.0
		<hr/>
		41 10,613.7

FEDERAL RESEARCH BURNS

<u>District</u>	<u>No. of Burns</u>	<u>No. of Plots</u>	<u>Hectares</u>
Timmins	1	5	20.1
Blind River	1	4	.8
		<hr/>	
		2	9
			20.9

AIR SERVICE SUMMARY - I

Hours flown in years ending March 31

Year	Fire Ranging	Timber	Fish and Wildlife	Surveys	Lands	Parks
1981	3,000	1,674	2,473	342	1,065	609
1982	1,973	1,760	2,600	360	1,120	640
1983	3,037	1,670	2,460	425	1,217	530
1984	1,364	1,725	2,328	423	1,093	625
1985	1,640	1,830	2,960	478	1,309	590
1986	976	2,065	3,827	392	1,601	254
Total 1924-86	246,283	46,213	121,226	5,168	21,615	15,755

Year	Research	Inter- Ministry	Photo	Mercy Flights	Misc.	Total
1981	380	1,372	621	19	3,662	15,217
1982	400	1,647	656	58	4,789	16,003
1983	456	1,885	640	13	2,855	15,188
1984	450	3,078	572	22	3,111	14,791
1985	474	3,931	680	29	454	14,375
1986	338	1,763	493	13	3,759	15,481
Total 1924-86	11,601	42,342	9,287	1,958	182,941	704,389

AIR SERVICE SUMMARY - II

in years ending March 31

Year	Mercy Flights	Passengers Carried	Loads Carried Tons	Metric Tons
1981	10	25,480	801.06	883
1982	28	28,485	988.00	1,089
1983	8	30,267	2,069.17	2,280
1984	16	29,175	1,856.73	1,893
1985	13	31,023	1,988.50	2,192
1986	6	18,534	4,609.30	5,080

ADMINISTRATION DIVISION

Room W-6345, Main Office Telephone (416) 965-7106

Assistant Deputy Minister.....	R. M. Monzon.....	W-6345.....7106
Administrative Assistant.....	Mrs. W. Paquette.....	W-6344...3-2005
Secretary.....	Mrs. E. Lynch.....	W-6345.....7106
Finance and Administration Group		
Executive Co-ordinator.....	D. J. Johnstone.....	W-6347.....6148
Affirmative Action		
Program Co-ordinator.....	B. Robson.....	W-4611.....5663
Communications Services Branch		
Director/Acting.....	V. Chavossy.....	W-5352.....3315
Personnel Services Branch		
Director.....	M. Barker.....	W-4530.....3825
Legal Services Branch		
Director.....	B. G. Jones (acting)....	W-6420.....2748
Office of Management, Planning and Analysis		
Director.....	P. Bryant.....	W-6350.....4143
Manpower Planning		
Director.....	H. Farrant.....	W-6312...3-3754
MNR Update.....	J. Simpson.....	W-3312...3-1206

Administration Division

COMMUNICATIONS SERVICES
BRANCH

Room W-5340, Main Office Telephone (416) 965-2756

Branch Director.....	V. Chavossy (acting)....	W-5352...5-3315
Secretary.....	Miss M. Goh.....	W-5340...5-3315
Communications Policy Co-ordinator	P. Andrews.....	W-5340...5-2756
Communications Planning		
Co-ordinator.....	G. Merchant (acting)....	W-5441...3-2958
Northern Ontario Communications		
Co-ordinator.....	K. Robertson.....	W-5340...5-2756
Information Services Section....	M Welch, Mgr (acting)...	W-5340...5-2756
French Language Policy.....	Ms. F. Blais.....	W-5340...3-2026
Writing Co-ordinator.....	Ms. S. McGuire (acting).	W-5340...3-2756
French Language Writer.....	D. Legault.....	W-5340...3-0163
Landmarks Editor.....	J. Heer (acting).....	W-5340...5-2758
Aski Editor.....	N. Rahtz (acting).....	W-5340...5-2758
Educational Programs		
Co-ordinator.....	S. Gesner.....	W-5340...5-2781
Media Liaison Supervisor.....	C. Ross.....	W-5340...5-2756
Public Information Centre		
Supervisor.....	Mary-Ellen Stoll.....	W-1640...5-2445
Parks Information.....	.....	W-1640...5-3081
Fisheries Information.....	.....	W-1640...5-7883
Wildlife Information.....	.....	W-1640...5-4251
Forestry/Lands Information.....	.....	W-1640...5-9751
Maps Information.....	.....	W-1640...5-6511
Aerial Photos.....	.....	W-1640...5-1123
Minerals Information.....	.....	W-1640...5-1348
Creative Services Section.....	J. Grayston Mgr (acting)	W-5440...5-2780
Exhibits & Displays Unit.....	J. Grayston, Spvr.....	W-5440...5-2780
Publications Services Unit.....	Ms. C. Haines	
	Spvr., (acting).....	W-5440...5-2780
Publications Editor.....	Ms. M. Reid.....	W-5440...5-2780
Graphic Designer.....	A. Gokhan.....	W-5440...5-2780
Audio Visual Unit.....	A. Campeau, Spvr.(acting)	W-5440...3-1325
Photographer.....	Miss H. Bickle.....	W-5440...3-1325
Film & Audio-visual Consultant.	L. Walton.....	W-5440...3-1325
Advertising & Marketing Officer..	C. Gullason.....	W-5441...3-2956

Administration Division

PERSONNEL SERVICES BRANCH

Room W-4520, Main Office Telephone (416) 965-3825

Branch Director.....	M. P. Barker.....	W-4530...3825
M.O.S.S. Unit		
Manager.....	E. Polonoski.....	W-4601...7240
Corporate Personnel Services		
Manager.....	E. Cardwell.....	W-4531.3-2692
Personnel Policy & Staff Relations		
Manager.....	R. Gordon.....	W-4528...6091
Occupational Health & Safety Section		
Manager.....	A. B. Shipston.....	W-5645...2735
Human Resources Planning &		
Development Section Manager....	R. B. Brayshaw.....	W-4422...1468

STAFF SUMMARY

Total MNR Staff as of March 31, 1986

	Regular	Probationary	Unclassified	Total
Main Office	926	80	402	1,408
Field Office	2,878	102	1,193	4,173
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TOTAL	3,804	182	1,595	5,581

Total Number of Positions	4,241
Total Number of Staff	3,986
Total Number of Vacancies	255
New Employees Hired 1985/86	151

Management Staff	1,007
Executive Staff	39
Bargaining Unit Staff	2,888
Position Excluded Staff	52

Total	3,986
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Deceased	7
Transferred	23
Released	4
Resigned	67
Dismissed	1
Retired	80

Total	182
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STAFF SUMMARY

at March 31, 1985

	1981	1982	1983	1984	1985	1986
Regular Staff	4,060	4,093	4,163	3,948	3,819	3,804
Probationary Staff	322	203	141	49	140	182
Unclassified Staff	1,636	1,565	1,380	1,601	1,646	1,595
TOTAL	6,018	5,867	5,684	5,598	5,605	5,581
Main Office Staff	880	863	917	887	992	1,022
Field Office Staff	3,502	3,439	3,387	3,110	2,967	2,964
New Employees	306	140	160	57	101	151
Deceased	10	9	12	11	8	7
Superannuated	99	45	78	156	59	80
Transferred	1	36	17	18	16	23
Resigned	165	81	73	85	44	67
Dismissed	3	1	1	2	2	1
Released	5	0	1	1	3	4
Miscellaneous	29	0	1	0	0	0
Total Separations	312	172	183	273	132	182
Junior Rangers	1,736	1,736	1,636	1,716	1,716	1,716

MANAGEMENT GROUPS

Administrative	233
Clerical	7
Operational	13
Professional	272
Technical	482

Total	1,007
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Executive Compensation Plan	39
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Position Excluded	52
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BARGAINING UNIT CATEGORIES

Administrative Services	120
Scientific & Professional	418
Technical Services	1,252
Office Services	401
Clerical Services	433
Maintenance Services	196
General Operational Services	68

Total	2,888
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Administration Division

LEGAL SERVICES BRANCH

Room W-6420, Main Office Telephone (416) 965-2748

Director.....	B. G. Jones.....	W-6420.....2748
Senior Solicitor.....	L. A. Low.....	W-6420.....2748
Solicitors.....	M. M. Crystal.....	W-6420.....2748
	M. P. Koskie.....	W-6420.....2748
	C. E. Mansfield.....	W-6420.....2748
	D. A. Pigeon Bernotas...	W-6420.....2748
	R. F. Robinson.....	W-6420.....2748
	A. R. E. Ryan.....	W-6420.....2748
	J. Skala.....	W-6420.....2748
	M. N. K. Toor.....	W-6420.....2748
	T. N. Trow.....	W-6420.....2748

Legal matters dealt with by the Branch include legal opinions, drafting statutes, regulations, orders in council, litigation and all other matters of a legal nature affecting the Ministry.

LEGISLATION

The Acts administered by the Ministry are as follows:

LANDS AND WATERS GROUP

BEACH PROTECTION ACT prohibits the removal of sand from the bed, bank, beach, shore or waters of any lake, river or stream in Ontario except under the authority of a licence issued under the Act or written consent of the local municipality.

BEDS OF NAVIGABLE WATERS ACT (sometimes referred to as the "Cochrane Act") is declaratory legislation relating to title in the beds of navigable waters. It followed the decision in the 1911 case of Keewatin Power versus The Town of Kenora. By the Act, the beds are deemed not to have passed to the grantee of bordering Crown land in the absence of an express grant.

CANADA COMPANY'S LAND ACT, 1922, empowers the Crown to sell and convey to purchasers of lands from the Canada Company the mineral rights in the lands.

CONSERVATION AUTHORITIES ACT provides for the establishment of conservation authorities for the purpose of establishing and undertaking in the area over which they are given jurisdiction, programs designed to further the conservation, restoration, development and management of natural resources other than gas, oil, coal and minerals.

LAKES AND RIVERS IMPROVEMENT ACT deals with: the construction, repair and use of dams; timber driving; and timber slide companies. The Act prohibits construction of dams without Ministry approval. The Minister is given discretionary powers relating to the repair, reconstruction and removal of dams, maintenance of water levels, and regulation of use of waters or works.

MINING ACT sections 112, 113, 114, 115 and 162 only. The remainder of the Mining Act is now administered by the Ministry of Northern Development and Mines.

NORTH GEORGIAN BAY RECREATIONAL RESERVE ACT, 1962-3, establishes the North Georgian Bay Recreational Reserve and provides for the planning and development thereof and the appointment of a committee to advise the Minister thereon.

ONTARIO GEOGRAPHIC NAMES BOARD ACT provides for the establishment of a Geographic Names Board for Ontario having the duty to gather information respecting the names of places and geographical features, make recommendations thereon, collaborate with the Canadian Permanent Committee on Geographic Names, and provide information to government departments, etc. The Minister may approve a recommended name and thereupon it shall be used by all government departments and agencies in the preparation of maps and other publications.

ONTARIO HARBOURS AGREEMENT ACT, 1962-63, confirms on behalf of Ontario the agreement between Ontario and Canada establishing the harbours which were public harbours at Confederation, providing that mines and minerals therein are administered by Ontario and confirming grants and quit claims listed therein. The federal harbours are Amherstburg, Belleville, Brockville, Chatham, Collingwood, Fort William, Gananoque, Goderich, Kincardine, Kingston, Kingsville, Leamington, Oshawa, Owen Sound, Penetanguishene, Port Arthur, Port Burwell, Port Hope, Port Stanley, Prescott, Rondeau Bay, Sarnia, Sault Ste. Marie, Southampton, Toronto, Whitby and Windsor.

PUBLIC LANDS ACT provides for: (1) A Public Agricultural Lands Committee to recommend on agricultural lands and their settlement, replacing the regulations on this subject; (2) The disposition of Crown land for a variety of purposes by sale, lease or licence, and by auction or tender; (3) The management of Crown land by the Ministry by zoning for land use, setting apart for public use, research, etc., and through agreements with municipalities on beaches and water lots; (4) The administration of roads on Crown lands including the designation of public forest roads and agreements with occupiers of private forest roads respecting the use by the public of private forest roads; (5) The administration and control of the construction and maintenance of dams; (6) The granting of water powers and privileges.

SURVEYORS ACT deals with the Association of Ontario Land Surveyors and the rules governing membership and conduct. The Minister or his appointee and the Surveyor-General are members of the Council of the Association.

SURVEYS ACT defines the system of surveys and the rules for surveys. The Minister orders surveys made on his volition or upon application to settle disputes or lost lines, etc.; and hearing evidence, he confirms the surveys, with or without amendment. His decision is subject to appeal to a judge of the Divisional Court.

FOREST RESOURCES GROUP

ARBOREAL EMBLEM ACT, 1984 adopts the Eastern White Pine as the arboreal emblem of the Province of Ontario.

CROWN TIMBER ACT enables the granting of the following four types of licences to cut Crown timber, a licence based on a call for tenders, a licence to salvage timber, a licence for areas that do not exceed 64.75 hectares (160 acres), and a licence approved by Order in Council for large areas.

The Act also enables the Minister to enter into comprehensive forest management agreements with members of the forest industry to ensure that forests under the agreements are harvested and regenerated to produce successive crops of timber on a sustained yield basis.

Crown Management Units may be established under the Act and agreements entered into for the supply of Crown timber from such units. Under this arrangement, the party to the agreement does not have exclusive rights in a specific area until a licence is granted to him to fill his requirements for an operating season.

Crown dues and area charge are fixed by the regulations.

Other subjects dealt with are: forest management, operating and annual plans; examination of scalers and licensing of scalers; licensing of mills; penalties for wasteful practices, unauthorized cutting, removal of timber for scaling, and other violations; and protection of the Crown's interests through seizure of timber and a statutory lien for Crown charges.

ALGONQUIN FORESTRY AUTHORITY ACT establishes a Crown corporation known as the Algonquin Forestry Authority to harvest Crown timber in Algonquin Provincial Park and public lands adjacent to the park, to sell the logs and also to carry out such forestry, land management and other programs and projects as the Minister of Natural Resources authorizes.

FORESTRY ACT. Under this Act: (1) The Minister enters into agreements with landowners such as municipalities, conservation authorities and the National Capital Commission (Ottawa) to manage the forest lands; (2) Ministry tree nurseries are established and nursery stock is distributed; (3) Private forest reserves are set up on private lands with the consent of the owner; (4) The Minister, with the approval of the Lieutenant Governor in Council, may establish programs for the encouragement of forestry. At present, a managed forest tax reduction program has been established by the Minister.

FOREST TREE PEST CONTROL ACT provides for the control of outbreaks of forest tree insects and diseases on private lands.

SETTLERS' PULPWOOD PROTECTION ACT provides for the regulation of the sale and of the price of pulpwood cut from settlers' land.

SPRUCE PULPWOOD EXPORTATION ACT provides for the exportation under the authority of an Order in Council of unmanufactured spruce pulpwood from lands granted under special Acts which prohibit such export.

TREES ACT provides that, with the Minister's approval, municipalities may pass by-laws restricting and regulating the destruction of trees and appoint enforcement officers. Generally, by by-law, municipalities may acquire land for forestry purposes and enter into agreements with the Minister for the management of such lands and related matters.

WOODLANDS IMPROVEMENT ACT provides for the Minister to enter into agreements with owners of lands suitable for forestry purposes and situate in a private forest management area for the planting of nursery stock or stand improvement.

WOODMEN'S EMPLOYMENT ACT authorizes the appointment of inspectors and the making of regulations respecting conditions in lumber camps. It also provides that Crown timber licensees are responsible for the acts and omissions of their jobbers and subcontractors who carry out operations.

WOODMEN'S LIEN FOR WAGES ACT provides a lien and a procedure to enforce such lien for persons performing labour on timber.

MINERAL RESOURCES GROUP

PITS AND QUARRIES CONTROL ACT provides for the regulation of pit and quarry operations in designated parts of Ontario. Operations in designated areas must be licensed under the Act and are subject to periodic review to assure compliance with the provisions of the Act, the regulations and site plan.

PETROLEUM RESOURCES ACT sets out licensing requirements for various aspects of oil and natural gas exploration, drilling and production and provides for the making of regulations respecting oil and gas conservation and the safe operation of drilling and production facilities.

INDUSTRIAL AND MINING LANDS COMPENSATION ACT provides for agreements between the owner or operator of a mine and the owner or lessee of any land for payment of compensation for any damage or injury resulting or likely to result to the land or to its use and enjoyment from the operation of the mine.

GAS AND OIL LEASES ACT sets out the procedure whereby a lessor under a gas or oil lease may, upon default by the lessee under the terms of the lease, obtain an order declaring the lease void.

OUTDOOR RECREATION GROUP

ENDANGERED SPECIES ACT provides for the conservation, protection, restoration and propagation of species of flora and fauna of the Province of Ontario that are threatened with extinction.

FISHERIES ACT (CANADA) Ontario Fishery Regulations are made under this Act. They relate to open seasons for angling and commercial fishing and the licences required. The form of licences and the fees are prescribed under the Game and Fish Act.

FISHERIES LOAN ACT provides for loans to persons carrying on the business of commercial fishing or any other business dependent in whole or in part on the taking of fish from waters in which such taking has been prohibited by reason of the contamination of fish resulting from pollution of the water. Provision is made for federal-provincial agreements respecting the sharing of such loans.

FISH INSPECTION ACT is complementary to the Federal Act.

FRESHWATER FISH MARKETING ACT (ONTARIO) complements the Freshwater Fish Marketing Act (Canada). Through these Acts and the federal-provincial agreement, the Freshwater Fish Marketing Corporation established under the Federal Act is the sole purchaser of commercial fish, as defined in the Federal Act, taken in that part of Ontario designated in the regulations, i.e., that part of Ontario westerly of longitude 86 degrees except the Territorial District of Rainy River but including that part of Lake of the Woods in the Territorial District of Rainy River. Sales to and purchases by persons for their own consumption or for consumption by persons or animals in the course of the purchaser's business are excepted.

GAME AND FISH ACT deals with the management of wildlife resources; game animals; game birds (upland); fur-bearing animals; frogs; sale and rearing of game fish; and offences and enforcement. Regulations made under the Act establish open seasons for hunting and trapping; bag limits; Crown game preserves; the licensing of hunters, trappers, guides, persons operating game bird hunting preserves, and persons selling game fish for stocking and human consumption; the regulating of dogs used in hunting, aircraft transporting hunters, and conduct of hunters (hunter safety); and farmer-hunter relations. The Game and Fish Hearing Board was established under the Act on November 15, 1973.

MIGRATORY BIRDS CONVENTION ACT. Open seasons for migratory birds are set under this Act.

PARKS ASSISTANCE ACT provides for the establishment of parks in municipalities or in territory without municipal organization. The Minister may with the approval of the Lieutenant-Governor in Council make grants not exceeding 50 per cent of the cost of acquiring land and developing such parks. The parks established under the Act are to be maintained and operated in a manner complementary to provincial parks.

PROVINCIAL PARKS ACT provides for the establishment of provincial parks and their management and for certain employees having the authority of the O.P.P. in a provincial park. Advisory committees for one or more provincial parks may be appointed by the Minister with the approval of the Lieutenant-Governor in Council. Parks may be classified as a natural environment park, a nature reserve park, a wilderness park, a recreational park, a waterways park, or an historical park. Any of these classes may be zoned with controlled use in zones.

Mining is prohibited in provincial parks except as provided in the regulations. The regulations on mining were revoked in 1956 but rights and interest existing at that time were preserved.

Hunting is prohibited in provincial parks except as provided in the regulations under the Game and Fish Act or where the prohibition is removed by designation of the Lieutenant-Governor in Council under the Provincial Parks Act. This does not apply to the Townships of Bruton and Clyde (added to Algonquin Provincial Park by a Special Act).

Concession leases are granted under the Act. The province calls for tenders for buildings and facilities.

Vehicle admission charge is \$7.50 per day or \$30.00 for the season. A bus permit charge is \$12.00 per day. Senior Citizens are allowed free admission during the week except for camping on weekends, when half rates apply. Campsite charges are \$7.00 per day, or \$8.50 per day where shower facilities are available, and \$10.00 per day for campsites with electrical power. The charge for an extra car on a campsite is \$3.25 per day. On unorganized campsites in park interiors the charge is \$2.50 per person.

The above fees reflect those charged during peak periods. They may vary, depending on location and time of year.

This Act does not apply to any park under the management of the Niagara Parks Commission, the St. Lawrence Parks Commission or the St. Clair Parkway Commission.

WILDERNESS AREAS ACT was passed on March 26, 1959, to preserve areas having some unique feature. Development or utilization of the natural resources in an area more than 260 ha (640 acres) in size is not affected by this Act.

WILD RICE HARVESTING ACT prohibits the harvesting of rice on Crown land except under the authority of a licence.

AVIATION AND FIRE MANAGEMENT CENTRE

FOREST FIRES PREVENTION ACT applies to the seven fire regions set up by regulation. The fire season from April 1st to October 31st, may be extended by regulation. Fire permits are required during the fire season to (a) start fires in a fire region except for fires lit for cooking or warmth or to (b) ignite fireworks in or within 300 m of a forest or woodland. Work permits are required at any time of the year for carrying on any logging, mining, industrial operation or clearing in or within 300 m of a forest or woodland. Areas may be established as restricted fire zones in which fires for cooking or warmth will be restricted to portable stoves and barbecues or as restricted travel zones in which a travel permit will be required except on public roads, cities, towns, villages, police villages, supervised camping grounds and water adjacent thereto. The Minister may declare emergency areas and may make orders for suppression and the safety and evacuation of persons. The Minister may enter into agreements with Canada, any province, any federal or provincial agency or municipality respecting the prevention and control of forest fires. The regulations establish fire precautions.

GENERAL

ALGONQUIN PROVINCIAL PARK EXTENSION ACT, 1960-1, adds the public lands in the Geographic Townships of Bruton and Clyde in the Provincial County of Haliburton to the park, subject to hunting.

GANANOQUE LANDS ACT, 1961-2, vests certain lands in the town of Gananoque in the Crown and authorizes the sale of encroachments to adjoining owners for a fee of \$50.00 and the granting of the balance of the land.

LAC SEUL CONSERVATION ACT, 1928, provides for the execution of an agreement between the Government of the Province of Ontario, represented by the Minister of Lands and Forests, the Government of Canada and the Government of the Province of Manitoba regarding the construction of a dam at the outlet of Lac Seul.

LAKE OF THE WOODS CONTROL BOARD ACT, 1922, is complementary to a Federal Act of 1921. It deals with the regulation of the water levels of the Winnipeg River, the English River, Lac Seul and Lake St. Joseph. The Board was created following a report in 1917 by the International Joint Commission which was established under a treaty made in 1909 between the United States and Great Britain. The membership of the Board consists of a Federal representative and one from Manitoba and two from Ontario. One Ontario member is appointed by the Ontario Hydro. The other is R. M. Odell, Chairman of the Lake of the Woods Control Board and Acting Supervisor, Models and Consultative Services, Conservation Authorities and Water Management Branch, Ministry of Natural Resources, with D. L. Strelchuk as alternate member.

The Board has the duty to secure severally and at all times the most dependable flow and the most advantageous and beneficial use of the waters of the Winnipeg and English Rivers and, for the purpose, to regulate the flow of:

- (a) Lake of the Woods, to levels recommended by the International Joint Commission as agreed by Canada and the United States;
- (b) Lac Seul, to levels recommended by the Board and approved by the Lieutenant-Governors in Council of Ontario and Manitoba and to regulate the flow into Lac Seul through the Lake St. Joseph diversion.
- (c) Winnipeg River, between its junction with the English River and Lake of the Woods, and the English River between its junction with the Winnipeg River and Lac Seul; and
- (d) Other waters of the watershed of the Winnipeg River as are placed under its jurisdiction by the Governor-General in Council and the Lieutenant-Governors in Council of Ontario and Manitoba.

MANITOBA-ONTARIO LAKE ST. JOSEPH DIVERSION AGREEMENT AUTHORIZATION ACT, 1958, provides for entry by Ontario and The Hydro-Electric Power Commission of Ontario into an agreement with Manitoba and The Manitoba Hydro-Electric Board in respect of the diversion of waters into the Winnipeg River and electrical power generated from such waters in Ontario and Manitoba.

MINERAL EMBLEM ACT, 1975, adopts the amethyst as the mineral emblem of the Province of Ontario.

MINISTRY OF NATURAL RESOURCES ACT effective as of April 1, 1972, created the new Ministry of Natural Resources by amalgamating the former Department of Lands and Forests and Department of Mines and Northern Affairs and repealed the provisions of a number of Acts on which the departments depended for administrative authority. Effective October 30, 1973, the Act provides for the appointment of a Mining and Lands Commissioner and advisory committees.

NATIONAL RADIO OBSERVATORY ACT, 1962-3, provides for the transfer of administration and control of certain public lands in the Township of White, District of Nipissing, to Canada for the maintenance and operation of a national radio observatory.

OTTAWA RIVER WATER POWERS ACT, 1943, ratifies and confirms an agreement between the Province of Ontario, the Province of Quebec, the Hydro-Electric Power Commission of Ontario and the Quebec Streams Commission respecting the development of water power on the Ottawa River.

SEINE RIVER DIVERSION ACT, 1952, confirms the partial diversion of the Seine River and authorizes the completion and operation of the diversion by Steep Rock Iron Mines Limited.

Administration Division

FINANCE AND
ADMINISTRATION GROUP

Room W-6347, Main Office Telephone (416) 965-6148

Executive Co-ordinator.....	D. J. Johnstone.....	W-6346.....6148
Secretary.....	Heather Daley.....	W-6346.....6147
Co-ordinator, Systems		
Implementation.....	J. A. Queen.....	W-6341.....3322
Project Officer.....	K. Vogan.....	W-6341.....3322

Administration Division

SYSTEMS SERVICES BRANCH

Main Office, Room W-6540 (416) 965-5671

Director.....	J. H. Findeis.....	W-6547.....2750
Secretary.....	I. Hardy.....	W-6540.....5671

Systems Co-ordination Section

Manager.....	C. K. Moulson.....	W-6546.....5674
Sr. Systems Co-ordinator.....	J. Sanford.....	W-5610...3-1450
Management Consultant.....	L. Goecke.....	W-5611...3-1316
Program Group Systems		
Co-ordinators.....	J. Boufford.....	W-5610...3-1316
	S. Mitchell.....	W-5610...3-1316
	J. Paige.....	W-5610...3-1316
	J. Wei.....	W-5610...3-1316
Office Automation Specialist...	C. Jones.....	W-5611...5-8508

Information Resources Development Section

Manager.....	I Talvila.....	W-6548...3-0361
Supervisor, Data Co-ordination	L. Bailey.....	W-6545...3-1327
Major Systems, Sr. Systems		
Officer.....	L. Davidson.....	W-6544...5-3790
Advanced Technology Systems		
Senior Systems Officer.....	R. Orawski.....	W-6502...3-2391

Operations and Support Section

Manager.....	.....	.....
Technical Support Supervisor	M. Zillman.....	W-6543...3-2392
Information Centre Analyst	N. Panksep.....	W-6540...3-1324
Operations, Supervisor.....	D. Trentadue.....	W-5426...5-3794
Senior Operations Analyst....	D. Thompson.....	W-5426...5-0116
Technical Operations Officer.	R. Khan.....	W-5426...5-0116
Security Analyst.....	A. Richardson.....	W-5426...5-0938

Administration Division

INTERNAL AUDIT SERVICES BRANCH

Room W-4633, Main Office Telephone (416) 965-4087

Branch Director..... A. A. Ward..... W-4637.....4087

Assistant Director and Senior

EDP Auditor..... D. L. Lay..... W-4634.....4087

Northern Audit Section

Box 5000

Thunder Bay, P7C 5G6

Audit Manager..... S. A. Soldan..... (807) 475-1211
(IC 844)

Sault Ste.Marie sub-office

875 Queen Street East

Sault Ste.Marie, P6A 2B3

Senior Auditor..... W. C. Johnstone..... (705) 949-1231
(IC 842)

Southern Audit Section

c/o District Office

Maple, LOJ 1E0

Audit Manager..... D. A. Dooling..... (416) 832-2761
Ext.281

Administration Division

FINANCIAL RESOURCES BRANCH

Room W-4325, Main Office, Telephone (416) 965-2761

Director.....	Amber J. Armitage.....	W-4324...5-2761
Chief Accountant.....	Ian Nott.....	W-4326...5-2761
Financial Reporting & Claims.....	Vince Ferrara.....	W-4320...5-1895
Financial Methods.....	George Jarzabek.....	W-4328...5-1218
Financial Policy Development.....	Ed Young.....	W-4501...5-1033
Accounting Operations.....	Paul Comeau.....	W-4340...5-9774
Accounting Section.....	Claudette Obelnycki.....	W-4441...5-2251
Accounts Payable.....	Terry Headley.....	W-4303...5-2764
Employee Services.....	Cathy MacFadyen.....	W-4341...5-2766
Licence Issuing.....	Tom Tunnicliff.....	W-4342...5-2814
Revenue.....	Shirley Perry.....	W-4443...5-2770
Program Planning & Budget.....	David H. Cope.....	W-4420...5-7086
Budget Co-ordinator.....	Jim MacDonald.....	W-4420...5-9052
Senior Group Advisor.....	John Botterill.....	W-4420...5-7086
Group Advisors.....	Paul King.....	W-4420...5-9052
	Dawn Sword.....	W-4420...5-7086
Division Advisor.....	Alan Teder (acting).....	W-4420...5-7086
Financial Planning & Program		
Evaluation.....	Philip Wormwell.....	W-4427...5-7182
Senior Program Officers.....	Dave Boggs.....	W-4427...5-7182
	Anne Harris.....	W-4427...5-7182
	Stan Mathewson.....	W-4427...5-7182

Administration Division
Finance and Administration Group

REVENUE AND EXPENDITURES

in years ending March 31

Year	Budgetary Revenue \$	Budgetary Expenditure \$
1982	160,546,904	363,253,018
1983	135,735,095	374,348,745
1984	149,669,629	407,490,465
1985	238,765,999	437,550,337
1986	219,345,460	443,945,965

LANDS REVENUE

in years ending March 31

Year	Water Power \$	Crown Land Sales \$	Crown Land Rentals \$	Park Rentals & Fees \$	Pits and Quarries Licences \$	Land Use Permits \$
1982	20,604,400	2,243,525	947,993	125,483	159,275	558,492
1983	23,613,132	1,690,312	994,362	-	162,750	647,007
1984	25,593,045	1,719,761	959,100	-	165,015	712,854
1985	67,389,828	1,499,961	939,607	-	158,225	873,559
1986	86,427,338	1,177,710	884,730	-	171,846	720,514

Year	Assignments & Extension Fees \$	Cons. Authorities Federal Agreements \$	Return of Grants \$	Recovery Prior Years Land Acquisition \$	Misc. \$	Total \$
1982	16,300	511,589	469,201	103,966	87,549	25,827,773
1983	20,453	1,103,543	148,277	2,791	115,146	28,497,773
1984	22,575	137,594	172,653	38,597	386,148	29,907,342
1985	22,600	698,991	165,550	62	337,812	72,086,195
1986	24,350	356,783	41,927	96	695,566	90,500,860

TIMBER REVENUE

in years ending March 31

Year	Stumpage Charges \$	Timber Area Charges \$	Nursery Tree Sales \$	Agreement Forest \$	Federal Agreement \$	Misc. \$	Total \$
1982	38,204,534	4,437,802	818,152	354,783	9,751	68,697	43,893,719
1983	39,137,899	3,435,840	943,801	539,326	-	64,177	44,121,043
1984	46,754,081	4,625,266	606,385	586,724	5,763	67,840	52,646,059
1985	55,473,234	4,375,434	659,927	410,222	145,372	73,940	61,138,129
1986	62,600,005	6,579,249	564,762	436,978	18,427,090	-	88,608,084

MINING REVENUE

in years ending March 31

Year	Licences and Permits	Mining Claims	Sale of Mining Lands	Rentals	Royalties
1982	319,952	537,731	3,191	582,818	2,250,102
1983	412,918	528,050	1,375	1,695,196	6,101,775
1984	569,477	661,066	3,003	732,129	4,660,987
1985	197,787	781,015	-	1,402,097	6,768,365
1986	948,411	-	-	747,653	6,527,604

Year	Taxes	Forfeit- ures	Labor- atory Fees	Rec. of Prior years Expenditure	Federal Agree- ment	Total
1982	55,411,740	2,840	153,161	-	-	59,261,535
1983	26,178,380	1,980	163,410	-	1,187,031	36,270,115
1984	32,544,776	2,700	178,985	-	1,479,939	40,833,062
1985	65,093,544	1,640	90,285	-	2,327,747	76,662,480
1986	474,978	-	91,646	-	1,005,251	9,795,543

PROVINCIAL PARKS REVENUE

in years ending March 31

Year	Permits \$	Campsite Permits \$	Concessions Rental \$	St. Lawrence Lic. & Permits \$
1982	1,215,227	5,519,852	356,984	1,933,584
1983	1,195,392	6,555,071	402,132	-
1984	1,392,446	6,620,918	387,401	-
1985	1,154,514	6,749,029	347,185	-
1986	1,169,565	6,593,034	281,098	-

Year	Federal Agreement \$	St. Clair Pkwy. Commission \$	Misc. \$	Total \$
1982	1,572,055	18,000	188,964	10,804,666
1983	190,089	1,500	162,470	8,506,654
1984	14,879	-	155,269	8,570,913
1985	-	-	134,860	8,385,588
1986	-	-	134,964	8,178,661

FISH AND WILDLIFE REVENUE

in years ending March 31

Year	Non-Res. Angling \$	Other Fishing \$	Commercial Fishing \$	Non-Res. Hunting \$
1982	7,610,191	156,957	117,419	1,490,490
1983	7,466,134	169,829	148,254	1,382,798
1984	7,256,322	172,716	65,009	1,212,760
1985	9,197,224	185,642	179,953	1,262,753
1986	9,762,572	83,154	153,834	1,557,076

FISH AND WILDLIFE REVENUE

Year	Resident Bear \$	Resident Deer \$	Resident Moose \$	Resident Groundhog \$	Res.(Gun) Hunting \$
1982	122,105	1,296,196	1,375,086	83,677	1,584,495
1983	132,636	1,362,761	1,719,562	78,807	1,580,569
1984	147,866	1,507,761	1,404,361	2,782	1,490,967
1985	131,238	1,641,430	1,768,078	-	1,513,349
1986	136,046	1,880,319	1,893,418	-	1,607,278

Year	Dog \$	Trappers \$	Fur Dealers \$	Hunter Exam Fee \$	Prov. Park Hunting \$
1982	75,957	65,387	8,950	85,722	53,400
1983	73,258	62,923	9,675	86,178	67,264
1984	72,939	57,252	8,925	59,967	64,712
1985	75,278	56,259	9,150	63,342	50,160
1986	81,221	54,054	9,476	67,719	289,567

Year	Misc. Fees & Licences \$	Royalty Game \$	Agreements		Total \$
			Outside Agencies \$	Federal \$	
1982	140,728	1,159,433	123,947	361,447	15,911,587
1983	229,813	729,477	165,750	80,254	15,545,942
1984	194,324	669,126	120,829	431,243	14,939,861
1985	404,620	639,480	90,584	291,905	17,560,445
1986	28,437	740,775	47,755	267,086	18,659,787

OTHER CASH RECEIPTS

in years ending March 31

Year	Sale of Maps, Publications etc. \$	Fire Costs Recovered \$	House Rentals \$	Sale of Buildings \$	Sale of Van and Equip. \$
1982	2,300,366	670,538	450,197	5,112	479,650
1983	686,651	306,055	411,266	30,012	393,846
1984	634,013	160,740	402,108	6,946	490,149
1985	761,511	114,668	367,696	13,355	505,729
1986	681,551	331,611	427,710	9,849	422,766

Year	Con- fiscated Articles \$	Frost Centre \$	Non-Recurring Items and Misc. \$	Board & Lodging \$	Total \$
1982	46,149	340,651	379,107	175,854	4,847,624
1983	59,412	401,061	301,008	204,257	2,793,568
1984	42,695	457,832	403,170	174,739	2,772,392
1985	59,176	497,619	465,681	147,727	2,933,162
1986	75,536	519,889	1,058,329	138,284	3,602,525

Administration Division

ADMINISTRATIVE SERVICES BRANCH

Room W-5528, Main Office Telephone (416) 965-2711

Branch Director.....	T. Pierro (acting).....	W-5528.....2711
Branch Administration		
Co-ordinator.....	Ms. M. Clement.....	W-5520.....2711
Management Analysts.....	G. Kettel.....	W-5520.....4600
	Ms S. Fasken.....	W-5520.....4600
Operations Analysis Section.....		
Fleet & Insurance.....	R.E. Armstrong, Chief...	W-5526.....3317
Co-ordinator, Supply Mgmt.	L. Krol.....	W-5504.....1255
Unit.....	Ms. L. Wright.....	W-5520.....4600
Purchasing Specialist.....	W. Howson.....	W-5520.....4600
Supply Mgmt Projects Officer.	Ms B. Martin.....	W-5520.....4600
Supply Mgmt Specialists.....	S. Griffin.....	W-5520.....4600
	N. Banavage.....	W-5520.....4600
Co-ordinator, Contracting		
Unit.....	P. Mooradian.....	W-5520.....4600
Contracts Administrator.....	B. McKay.....	W-5520.....4600
Services Section.....		
Purchasing Services Unit.....	H. L. Bembridge, A/Chief	W-5527.....4600
Facilities Dev't Serv. Unit.	Ms. M. Marcel, Mgr.....	W-5533.....1601
Facilities Dev't Officer....	P. Coghill, Mgr.....	W-5423.....4645
Accommodation Services.....	D. Plamondon.....	W-5423.....4645
Records Info. Mgmt Services	S. Fenton.....	W-5423.....4645
Unit.....	Ms. L. Fischer.....	W-5422.....3822
Support Services Unit.....	Ms. C. Blancher A/Manager	W-5302.....5134
Main Office Vehicle Pool.....	Ms. June Mills.....	W-5302.....9988
Main Office Assets Control...	.....	W-5302.....5134
Copy Centre Services.....	.....	W-5502.....6790
Mail Services.....	.....	W-5310.....2778
Electronic Mail & Telecopier	.....	.....
Services.....	.....	W-5312.....2784
Central Supply Warehouse.....	D. Sibley, Spvr.....	.....1286
(51 Esander Drive, Toronto)		
Conferences, Hospitality		
Services.....	M. D. Cantelon.....	W-5301.....6166

VEHICLES AND EQUIPMENT IN SERVICE

in year ending March 31, 1986

Type	Number in Operation
<hr/>	
Subcompact Cars and Station Wagons	9
Compact Cars and Station Wagons	169
Full-size Cars and Station Wagons	59
Standard and Extended Pickups	892
Four-wheel Drive Vehicles	297
Crew Cabs	91
Passenger Vans and Personnel Carriers	164
Buses	5
 Cab and Chassis - 10,000 GVW	 83
Cab and Chassis - over 10,000 GVW	123
Cab and Chassis - specialized bodies	25
<hr/>	
TOTAL	1,917
Motorcycles	49
Trailers (boat and equipment)	985
Trailers (refrigerated)	26
Snowmobiles	550
Tractors	355

NORTHWESTERN REGION

Box 5160, 810 Robertson St., Kenora Ont. P9N 3X9
Phone (807) 468-3111

D. R. Johnston.....	Regional Director
W. J. Straight.....	Deputy Reg. Director
D. R. Fortner.....	Deputy Reg. Director
G. N. McGeachy.....	Admin. Co-ordinator
D. O. Wray.....	Forester
G. K. Winterton.....	Biologist
G. N. Warner.....	Safety Officer
R. H. Hanlan.....	Planning Co-ordinator
D. M. C. Lindstrom.....	Operations & Services Co-ordinator
K. J. Chambers.....	Resource Development Co-ordinator
W. Kostantin.....	Personnel Officer

Fire Management Centre
T. Campbell, Program Manager - Fire Management
Box 850, Dryden, Ontario P8N 2Z5
Phone (807) 937-4402

Dryden Tree Nursery
M. McIntyre, Nursery Supt.
Box 90, Wabigoon, Ontario P0V 2W0
Phone (807) 938-6326

KENORA DISTRICT

Box 5080, 808 Robertson St., Kenora, Ont. P9N 3X9.
Phone (807) 468-9841

G. G. Pyzer.....	District Manager
R. G. McCue.....	Administration
D. Philippi.....	Field Services
W. H. Mills.....	Forests
T. J. Lunny.....	Land Management
R. W. Paterick.....	Parks
J. T. Taylor.....	Fish and Wildlife

FORT FRANCES DISTRICT

922 Scott Street, Fort Frances, Ont. P9A 1J4
Phone (807) 274-5337

J. K. Cleaveley.....	District Manager
T. M. McWhirter.....	Administration
S. E. Cameron.....	Parks & Operations
W. R. Darby.....	Fish & Wildlife
A. P. Matiece.....	Forests
C. E. Horne.....	Land Management

SIOUX LOOKOUT DISTRICT

Box 309, Sioux Lookout, Ont. POV 2T0
Phone (807) 737-1140

J. Young.....	District Manager
W. L. Bertrand.....	Administration
H. D. Morrison.....	Operations/Parks
A. A. Martin.....	Fish & Wildlife
B. A. Ferguson.....	Forests
F. E. Brown.....	Land Management

DRYDEN DISTRICT

Box 730, Ontario Gov't. Bldg., Dryden, Ont. P8N 2Z4
Phone (807) 223-3341

G. M. Tupling.....	District Manager
G. D. Tibbles (acting).....	Administration
J. A. MacDonald.....	Parks & Operations
F. D. Kennedy.....	Forests
H. Gibbard.....	Fish & Wildlife
E. M. Wires.....	Land Management

RED LAKE DISTRICT

Box 5003, Red Lake, Ont. POV 2M0
Phone (807) 727-2253

E. W. Everley.....	District Manager
B. A. Larkin.....	Administration/Operations
vacant.....	Fish & Wildlife
J. D. Lawson.....	Forests
P. J. Pincombe (acting).....	Land Management/Parks

IGNACE DISTRICT

Box 448, Ignace, Ont. POT 1T0
Phone (807) 934-2233

P. R. Wyatt.....	District Manager
W. A. Brunton.....	Administration
P. R. Croskery.....	Fish & Wildlife
R. D. Scott.....	Forests
J. D. Bond.....	Field Services
vacant.....	Land Management

NORTH CENTRAL REGION

Box 5000, Ontario Government Building
 435 James St. South, Thunder Bay 'F' Ont. P7C 5G6
 Phone (807) 475-1261

G. P. Elliott.....	Regional Director	
E. E. Murphy.....	Deputy Reg. Director	
W. Hendry.....	Deputy Reg. Director	
N. Nurse.....	Admin. Co-ordinator.....	1221
R. T. Thomson.....	Biologist.....	1231
A. B. Johnson.....	Fire Mgt. Program Manager.....	1265
R. B. Adamson.....	Engineer.....	1301
J. T. Rudolph.....	Forester.....	1251
D. J. Murray.....	Lands & Parks Co-ordinator.....	1321
M. N. Kantymir.....	Personnel.....	1201
J. E. Jackson.....	Senior Planner.....	1495
Vacant.....	Information Officer.....	1695

Dorion Fish Culture Station, P. Richard..... Phone (807) 857-2322
 Regional Fire Centre
 L. R. Hutchinson - Fire Services..... Phone (807) 475-1664
 R. Doyon - Fire Operation..... Phone (807) 475-1405
 Thunder Bay Forest Nursery, R. A. Klapprat..... Phone (807) 939-2561

THUNDER BAY DISTRICT

Box 5000, Thunder Bay 'F', Ont. P7C 5G6
 Phone (807) 475-1511

T. R. Isherwood.....	District Manager
Vacant.....	Administration
H. D. Howell.....	Fish & Wildlife, Parks & Rec.
R. Calvert.....	Forests
J. W. Suttie.....	Lands & Eng. Serv.

GERALDTON DISTRICT

Box 640, Geraldton, Ont. POT 1M0
 Phone (807) 854-1030

E. H. Stone.....	District Manager
L. S. Morrow.....	Administration
W. J. Cook.....	Fish & Wildlife
D. Jovic.....	Forests
A. Hoshino.....	Lands, Parks & Eng. Services

ATIKOKAN DISTRICT

108 Saturn Avenue, Atikokan, Ont. POT 1C0
Phone (807) 597-6971

S. Toole.....	District Manager
R. N. Boyle.....	Field Services and Administration
B. H. Gibson.....	Fish & Wildlife
.....	Forests
D. H. Elder.....	Lands & Parks

NIPIGON DISTRICT

Box 970, Nipigon, Ont. POT 2J0
Phone (807) 887-2120

A. Currie.....	District Manager
M. Wilson.....	Administration
L. Townes.....	Fish & Wildlife
S. Tenaglia.....	Forests
D. Bean.....	Lands & Parks & Eng. Serv.

TERRACE BAY

Box 280, Terrace Bay, Ont. POT 2W0
Phone (807) 825-3205

P. A. Strassburger.....	District Manager
B. A. Prince.....	Field Services & Administration
J. A. Chappel.....	Fish & Wildlife
J. Nickleson.....	Lands & Parks

Manitouwadge Work Centre

Box 309, Manitouwadge, Ontario
POT 2C0 Phone (807) 826-3225

D. Gordon.....	Forests
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NORTHERN REGION

Box 3000, 140 Fourth Ave., Cochrane, Ont. POL 1C0
 Phone (705) 272-4287

R. Riley.....	Regional Director
Vacant.....	Deputy Reg. Director
R. I. Thompson.....	Fin. & Admin. Co-ordinator
D. E. McHale	Deputy Reg. Director
60 Wilson Avenue, Timmins, Ont. P4N 2S7	
Phone (705) 267-1401	
H. I. Mattson.....	Outdoor Rec. Co-ordinator
J. S. Dougan.....	Personnel Manager
B. Blais.....	Fire Management Officer
C. Roswalka.....	Safety Manager
B. Sandilands.....	Planning/Lands/Eng. Co-ordinator
G. Oldford.....	Forester
R. J. Landry.....	Operations Manager
P. G. Mongraw.....	Systems Co-ordinator
D. G. O'Reilly.....	Information Officer

COCHRANE DISTRICT

Box 730, 2 Third Ave, Cochrane, Ont.
 POL 1C0 Phone (705) 272-4365

G. E. Martelle.....	District Manager
E. R. Millar.....	Eng./Prk. Supervisor
D. Stillar.....	Forester
R. J. Jackson.....	Fish & Wildlife/Lands

KAPUSKASING DISTRICT

6 Government Road, Kapuskasing, Ont P5N 2W4
Phone (705) 335-6191

R. G. Lightheart.....	District Manager
L. Keller.....	Operations Supervisor
C. Jessop.....	Fish & Wildlife
K. Buck.....	Forests
Vacant.....	Lands & Parks

CHAPLEAU DISTRICT

190 Cherry Street, Chapleau, Ont. POM 1K0
Phone (705) 864-1710

P. K. Bidwell (acting).....	District Manager
J. R. Russell.....	Operations Supervisor
P. W. Varrin.....	Fish & Wildlife
J. Gillham (acting).....	Forests
J. P. Dick.....	Lands & Waters
Vacant.....	Parks & Rec.

KIRKLAND LAKE DISTRICT

Box 129, Swastika, Ont. POK 1T0
Phone (705) 642-3222

C. E. Emblin.....	District Manager
G. E. Allick.....	Operations Supervisor
L. Chamberlin.....	Fish & Wildlife
L. K. Ternent.....	Forests
J. A. Colquhoun.....	Lands

Swastika Forest Station, L. J. Forcier..... Phone (705) 642-3255
Hill's Lake Trout Rearing Station, P. Graf..... Phone (705) 544-2834

GOGAMA DISTRICT

P.O. Box 129, Low Avenue, Gogama, Ont. POM 1W0
Phone (705) 894-2000

D. Shewen (acting).....	District Manager (705) 267-7951
J. Deem.....	Officer-in-Charge Lands/Parks
R. Fink.....	Administration
D. B. Elliott.....	Fish & Wildlife
Vacant.....	Forests

TIMMINS DISTRICT

896 Riverside Drive, Timmins, Ont. P4N 3W2
 Phone (705) 267-7951

D. Shewen (acting).....	District Manager
V. A. Mathieu.....	Operations Supervisor
J. Cavanaugh.....	Fish & Wildlife
J. S. Millar.....	Forests
C. R. Biggar.....	Lands & Parks

HEARST DISTRICT

631 Front St., Hearst, Ont. POL 1N0
 Phone (705) 362-4346

W. H. Therriault.....	District Manager
W. C. Trowsse.....	Administration
L. G. Woods.....	Field Services
S. St. Jules.....	Fish & Wildlife
C. Mason.....	Forests
M. J. Girouard.....	Lands & Parks

MOOSONEE DISTRICT

Box 190, Moosonee, Ont. POL 1Y0
 Phone (705) 336-2987

J. Kenrick.....	District Manager
L. Bent.....	Administration
G. F. McAuley.....	Field Services
K. G. Abrahams.....	Biologist
C. Lauer.....	Outdoor Rec.
W. A. Hutchison.....	Lands

NORTHEASTERN REGION

199 Larch Street, 9th Floor, Sudbury, Ont. P3E 5P9
Phone (705) 675-4120

M. A. Klugman.....	Regional Director
J. E. Hamilton.....	Deputy Regional Director
Ms K. McWhirter.....	Regional Finances and Admin. Co-ordinator
B. T. Cannon.....	Regional Lands Administrator
Mrs. M. Chambers.....	Personnel Services Co-ordinator
R. G. Running.....	Regional Information Officer
A. W. McClellan.....	Cons. Auth. & Safety Program Supervisor
W. Belisle.....	Fire Management Program Manager
W. C. Stevens.....	Regional Forester
E. A. Wright.....	Parks/Rec. Co-ordinator
J. R. Chevalier.....	Regional Biologist
H. Walsh.....	Regional Engineer

Tarentorus Trout Rearing Station
Sault Ste. Marie..... Phone (705) 949-1235
R. D. Earl - Manager

North Bay Trout Rearing Station
M. Bohm - Manager..... Phone (705) 663-2311

Sandfield Fish Hatchery
G. Clarke - Manager
Espanola..... Phone (705) 859-3370

Kirkwood Nursery,..... Phone (705) 842-3914
G. W. Connell - Superintendent

SAULT STE. MARIE DISTRICT

Box 130, 875 Queen St., Sault Ste. Marie, Ont. P6A 5L5
Phone (705) 949-1231

J. F. Christian.....	District Manager
H. J. Smith.....	Administration Supvr.
E. R. Thomas.....	Fish & Wildlife Supvr.
B. Smith.....	Forests Mgt. Supvr.
I. J. Valentine.....	Lands & Parks Supvr.
E. Vaughan.....	Engineering Services Suprv.

SUDBURY DISTRICT

Box 3500, Stn. A, Sudbury, Ont. P3A 4S2
Phone (705) 522-7823

J. A. Simpson.....	District Manager
M. H. Jackson.....	District Administration Supvr.
G. J. Haarmeyer.....	Fish & Wildlife Supvr.
D. R. Potvin.....	Forests Management Supvr.
M. K. Smith.....	Lands Supvr.
D. H. Brunette.....	Parks Supvr.

NORTH BAY DISTRICT

Box 3070, R.R. #3, Hwy. 63
North Bay, Ont. P1B 8K7
Phone (705) 474-5550

J. R. Morin.....	District Manager
G. E. Lacelle.....	District Admin. Supvr.
M. R. Wolfe.....	Fish & Wildlife Supvr.
D. E. Honeyborne.....	Forests Management Supvr.
R. V. Coulombe.....	Lands Management Supvr.
F. C. Shaver.....	Parks Supvr.

BLIND RIVER DISTRICT

Box 190, 62 Queen St., Blind River, Ont. P0R 1B0
Phone (705) 356-2234

B. Lannin.....	District Manager
F. McWhinnie.....	Administration Supvr.
S. B. Woodside.....	Fish & Wildlife Supvr.
C. F. Husk.....	Forests Management Supvr.
R. H. Wood.....	Lands Supvr.

WAWA DISTRICT

Box 1160, 22 Mission Road, Wawa, Ont. P0S 1K0
Phone (705) 856-2396

J. Chevalier (acting).....	District Manager
Mrs. J. M. Kern.....	District Admin. Supvr.
A. J. Bull.....	Field Services Supvr.
E. Armstrong.....	Fish & Wildlife Supvr.
C. K. Sumi.....	Forests Management Supvr.
E. V. Uhler.....	Lands Supvr.
A. L. Robinson.....	Parks Supvr.

ESPANOLA DISTRICT

Box 1340, 148 Fleming St., Espanola, Ont. POP 1C0
 Phone (705) 869-1330

E. N. Arbuckle.....	District Manager
Mrs S. Catling.....	District Admin. Supvr.
D. R. Hughson.....	Outdoor Recreation Supvr.
H. A. Liljalehto.....	Forests Management Supvr.
D. C. Carnochan.....	Lands Management Supvr.

TEMAGAMI DISTRICT

Box 38, Lakeshore Dr., Temagami, Ont. POH 2H0
 Phone (705) 569-3622

J. L. Hamill.....	District Manager
C. M. Hamilton.....	District Admin. Supvr.
B. A. Hillier.....	Forests Management Supvr.
R. B. Sinclair.....	Lands Supvr.
M. France-Bernier.....	Outdoor Recreation Supvr.

ALGONQUIN REGION

Box 9000, Brendale Square, Huntsville, Ont. POA 1K0
Phone (705) 789-9611

R. M. Christie.....	Regional Director
J. H. Lever.....	Deputy Reg. Director
J. Carswell.....	Admin. Co-ordinator
P. A. Smith.....	Regional Biologist
A. P. Stephen.....	Regional Engineer
B. Petman.....	Program Manager - Fire Management
T. E. Dodds.....	Regional Forester
J. A. van der Meer.....	Lands & Systems Co-ordinator
G. M. Moroz.....	Parks & Recreation Co-ordinator
R. P. Dubien.....	Systems Analyst

Pembroke Trout Rearing Station (Privatized - Envirocon Ltd.)
Phone (613) 687-5935

Skeleton Lake Fish Hatchery

C. Core..... Phone (705) 769-3731

Haliburton-Hastings Fisheries

Assessment Unit..... Phone (613) 332-3940

Algonquin Park Fisheries

Assessment Unit..... Phone (705) 637-2780

Fire Management - Inside Fire Region

Fire Operations Managers

J. McCabe.....	Parry Sound.....	(705) 746-4201
T. Russell.....	Minden.....	(705) 475-2107
B. Gagnon.....	Pembroke.....	(613) 732-3661
P. Gallagher..	Tweed.....	(613) 478-2330

PARRY SOUND DISTRICT

4 Miller St, Parry Sound, Ont. P2A 1S8
Phone (705) 746-4201

W. J. Lovering.....	District Manager
F. Buchan.....	Administration & Support Services
J. F. Gardner.....	Fish & Wildlife
G. C. Felton.....	Forests
L. W. Eaton.....	Parks
L. A. Connelly.....	Lands & Waters

BANCROFT DISTRICT

Box 500, Bancroft, Ont. K0L 1C0
Phone (613) 332-3940

D. J. Vance.....	District Manager
D. H. Loftus.....	Support Services
V. B. Collins.....	Fish & Wildlife
F. J. Walker.....	Forests
D. W. McLennan.....	Petroglyphs Park
O. J. Fleming.....	Lands & Parks Supervisor

ALGONQUIN PARK DISTRICT

Box 219, Whitney, Ont. K0J 2M0
Phone(705) 637-2780

G. R. Whitney.....	Park Supt./District Manager
E. A. Dayment.....	Administration
D. F. George.....	Forests
L. L. Powell.....	Outdoor Recreation (Parks, F&W)
B. A. Norris.....	Field Services & Lands

PEMBROKE DISTRICT

Box 220, Riverside Drive, Pembroke, Ont. K8A 6X4
Phone (613) 732-3661

L. J. Haas.....	District Manager
A. H. Plummer.....	Administration & Support Services
A. E. Armstrong.....	Fish & Wildlife
R. C. A. Gilbert.....	Forests
G. D. Yarranton.....	Lands & Mines
E. N. McKenzie.....	Parks

BRACEBRIDGE DISTRICT

Box 1138, Bracebridge, Ont. POB 1C0
Phone (705) 645-8747

H. P. Endress.....	District Manager
J. A. Hamilton.....	Administration & Support Services
Vacant.....	Fish & Wildlife
G. K. Schultz.....	Forests
J. A. Bryant.....	Lands
R. G. Ellis.....	Parks

MINDEN DISTRICT

Minden, Ont. KOM 2K0
Phone (705) 286-1521

D. D. White.....	District Manager
R. E. Raby.....	Administration & Support Services
S. T. Flemming.....	Fish & Wildlife
B. G. Cross.....	Forests
J. E. Dewey.....	Lands, Parks & Services

THE LESLIE M. FROST NATURAL RESOURCES CENTRE

Dorset, Ont. POA 1E0
Phone (705) 766-2451

D. D. White.....	Director
R. W. Stewart.....	Plan & Management Supt.
W. A. Chambers.....	Operations Supt.
E. F. Cyr.....	Field Operations Suprv.
T. G. Wright.....	Food Services
H. J. Barnhart.....	Maintenance Foreman

Specialists:

Vacant.....	Forestry
M. E. Buss.....	Fish & Wildlife
C. K. Macdonald.....	Recreation
R. R. Keevil (Acting).....	Lands
S. A. Williams.....	Visitor Services

EASTERN REGION

Provincial Government Building,
 Concession Road, Kemptville, Ont. K0G 1J0
 Phone (613) 258-3413

J. R. Oatway.....	Regional Director
D. E. Gage.....	Deputy Reg. Director, Resources
J. S. Anderson.....	Deputy Reg. Director, Services
J. R. Bailey.....	Admin. Co-ordinator
J. C. Williamson.....	Biologist
J. D. Murray.....	Lands & Cons. Auth. Prg. Supervisor
W. P. Barber.....	Parks & Rec. Co-ordinator
J. R. Stork.....	Engineer
T. W. Fletcher.....	Mines Co-ordinator
P. E. Anslow.....	Forester
D. G. Kennedy.....	Fire Management Co-ordinator

Codrington Fish Hatchery

G. E. Raine..... Phone (613) 475-2512

White Lake Fish Hatchery

K. Steele..... Phone (613) 335-2115

Westport Fish Hatchery

K. Steele..... Phone (613) 273-2106

G. Howard Ferguson Forest Station

A. J. Campbell..... Phone (613) 258-3413

TWEED DISTRICT

Metcalfe Street, Tweed, Ont. K0K 3J0

Phone (613) 478-2330

R. N. Kervin.....	District Manager
G. J. O'Hearn.....	Administration & Field Services
M. J. Williams.....	Lands
T. C. Corbett.....	Outdoor Rec.
A. J. Denys.....	Forests

NAPANEE DISTRICT

1 Richmond Blvd., Napanee, Ont. K7R 3S3
Phone (613) 354-2173

R. W. Beecher.....	District Manager
R. A. Armstrong.....	Finance, Administration & Field Services
R. W. Baldwin.....	Fish & Wildlife
R. Griffiths.....	Lands
J. C. Matheson.....	Parks
S. Thatcher.....	Mineral Resources

BROCKVILLE DISTRICT

Box 605, Oxford Ave., Brockville, Ont. K6V 5Y8
Phone (613) 342-8524

W. V. Hardy.....	District Manager
D. G. Gilmer.....	Finance, Administration & Field Services
G. L. Penney.....	Fish & Wildlife
W. M. Fasken.....	Forests
G. Tabobondune.....	Lands & Field Services
B. A. Barkley.....	Fast Growing Hardwoods Group
S. Thatcher (at Napanee).....	Mineral Resources

CARLETON PLACE DISTRICT

10 Findlay Ave., Carleton Place, Ont. K7C 3Z6
Phone (613) 257-5735

M. S. Millar.....	District Manager
G. N. Sanderson.....	Finance, Administration & Field Services
J. D. McCready.....	Forests
R. N. Jones.....	Fish & Wildlife
R. M. Rogers.....	Lands
M. A. MacDonald.....	Mineral Resources
K. J. Schonauer.....	Parks

CORNWALL DISTRICT

113 Amelia St. Cornwall, Ont. K6H 5V7
Phone (613) 933-1774

R. J. Cleroux.....	District Manager
W. J. Humphrys.....	Finance, Administration & Field Services
E. McGregor.....	Fish & Wildlife
B. W. Warwick.....	Forest Management
K. E. Green.....	Parks & Recreation
B. W. McCue.....	Lands & Mineral Resources

CENTRAL REGION

10670 Yonge St., Richmond Hill, Ont. L4C 3C9
Phone (416) 884-9203

M. B. Fordyce.....	Regional Director.....	883-3256
A. D. Latornell.....	Deputy Reg. Director.....	883-3258
H. Tjoelker.....	A/Deputy Reg. Director.....	883-3255
R. M. Clouthier.....	A/Support Services Co-ordinator....	883-3201
J. B. Dawson.....	Biologist.....	883-3227
J. J. McFadden.....	Cons. Auth. Co-ordinator.....	883-3262
E. L. Borczon.....	Forester.....	883-3254
M. Narain.....	Geologist.....	883-3214
T. M. Kurtz.....	Engineer.....	883-3279
J. T. Griffin.....	Parks Rec. Co-ordinator.....	883-3240
M. A. Groneng.....	Lands & Mines Co-ordinator.....	883-3216
D. P. Kolenosky.....	Systems Co-ordinator.....	883-3200
R. F. Kennedy.....	Personnel Officer.....	883-3250
K. G. Higgs.....	Niagara Escarpment Co-ordinator....	883-3220

Midhurst Forest Station, Midhurst

K. H. Reese..... Phone (705) 728-2900

Orono Forest Station, Orono

G. R. McLeod..... Phone (416) 983-9147

Ontario Tree Seed Plant, Angus

B. D. Swaile..... Phone (705) 424-5311

Deer Lake Fish Hatchery, R.R.#1, Havelock

G. T. Cation..... Phone (705) 778-3391

Ringwood Fish Hatchery

B. A. Marchant..... Phone (416) 640-6204

MAPLE DISTRICT

Maple, Ont. L0J 1E0

Phone (416) 832-2761

I. B. Earl.....	District Manager.....	203
W. B. Pottelberg.....	Support Services.....	300
R. L. Desjardine.....	Outdoor Recreation.....	211
Si Dae Kim.....	Forests.....	224
B. Anderson.....	Lands & Mineral Resources.....	208

LINDSAY DISTRICT

322 Kent St. West, Lindsay, Ont. K9V 4T7
 Phone (705) 324-6121

W. H. Forman.....	District Manager
A. V. Kaufman.....	Support Services
P. Drysdale.....	Fish & Wildlife
G. Higham.....	Forests
L. C. Selby.....	Lands & Minerals
G. Scott.....	Parks

HURONIA DISTRICT

Midhurst, Ont. LOL 1X0
 Phone (705) 728-2900

W. D. Mansell.....	District Manager
D. H. Poff.....	Support Services
A. W. Smith.....	Fish & Wildlife
R. O. Brandes.....	Forests
D. R. MacArthur.....	Services
J. R. Winters.....	Parks

CAMBRIDGE DISTRICT

Box 2186, Cambridge, Ont. N3C 2W1
 Phone (519) 658-9355

W. R. Catton.....	District Manager
B. J. DeGunst.....	Support Services
C. Selby.....	Fish & Wildlife
S. Yorgan.....	Forest Management
B. L. Houck.....	Parks
D. A. Routly.....	Lands & Minerals

NIAGARA DISTRICT

Box 1070, Hwy. 20, Fonthill, Ont. LOS 1E0
 Phone (416) 892-2656

A. Harjula.....	District Manager
A. J. Vos.....	Support Services
E. A. Kraker.....	Forests
D. Euler.....	Outdoor Rec.
J. Z. Fraser.....	Lands & Minerals

SOUTHWESTERN REGION

659 Exeter Rd., Box 5463, London, Ont. N6A 4L6

Regional Director.....	D. W. Schafer.....	(519) 661-2743
Deputy Reg. Director.....	A. J. Stewart.....	(519) 661-2734
Deputy Reg. Director.....	R. G. Elliott.....	(519) 661-2734
Secretary.....	J. M. Nagle.....	(519) 661-2779
General Inquiry.....	.....	(519) 661-2800
EOS (Electronic Office Service).	.....	MNR-800

Co-ordinators

Finance and Administration.....	B. G. Griffin.....	(519) 661-2752
Fisheries.....	H. A. Orr.....	(519) 661-2739
Conservation Authorities.....	R. W. Messervey.....	(519) 661-2736
Forestry and Wildlife.....	J. A. Fingland.....	(519) 661-2741
Parks and Recreation.....	P. H. Sturdy.....	(519) 661-2742
Enforcement.....	R. P. Wells.....	(519) 661-2740
Personnel.....	D. C. Watt.....	(519) 661-2733
Mineral Resources.....	P. A. Palonen.....	(519) 661-2711
Engineering.....	P. H. Crook.....	(519) 661-2722
Communications.....	J. N. Cooper.....	(519) 661-2730
Planning.....	I. C. Seddon.....	(519) 661-2727

Petroleum Resources Laboratory...	(519) 661-2765
-----------------------------------	-------	----------------

CHATHAM DISTRICT

Box 1168, 435 Grand Avenue, Chatham, Ont. N7M 5L8

Phone (519) 354-7340

W. L. McNab.....	District Manager
B. Hall.....	Support Services
K. Yaraskavitch.....	Resource Planning
A. D. Carr.....	Operations
H. W. Rowe.....	Extension Services
H. Manson.....	Station Manager
	Lake Erie Fisheries Unit

SIMCOE DISTRICT

548 Queensway West, Simcoe, Ont. N3Y 4T2
Phone (519) 426-7650

M. F. McKenzie.....	District Manager
A. McGarrity.....	Support Services
J. M. Collins.....	Resource Planning
R. Manley.....	Operations
W. L. Edwards.....	Extension Services

OWEN SOUND DISTRICT

611 Ninth Avenue East, Owen Sound, Ont. N4K 3E4
Phone (519) 376-3860

R. W. Tippet.....	District Manager
M. Gobeil.....	Support Services
S. A. Monroe.....	Lake Huron Fishery Operations Co-ordinator
W. J. Lambie.....	Resource Planning
P. H. Baxter.....	Operations
K. Hawthorne.....	Extension Services
E. G. Walker.....	Reg. Fire Co-ordinator

WINGHAM DISTRICT

R.R. #5, Wingham, Ont. NOG 2W0
Phone (519) 357-3131

A. M. Houser.....	District Manager
O. E. Crawford.....	Support Services
W. A. Creighton.....	Resource Planning
H. R. Lancaster.....	Operations
R. H. Spurr.....	Extension Services

AYLMER DISTRICT

353 Talbot St. W., Aylmer, Ont. N5H 2S8
Phone (519) 773-9241

D. G. Watton.....	District Manager
D. L. Clarke.....	Support Services
G. R. Austin.....	Operations
W. C. Gilmore.....	Resource Planning
D. G. Ward.....	Extension Services
J. W. E. Lau.....	Mineral Resources

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Telephone: 965-6015

Toll free long distance, 1-800-268-7540, in area code 807 dial 0-Zenith 67200.

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Publication

Statistics 1987



Ontario

Ministry of
Natural
Resources

Hon. Vincent G. Kerrio
Minister

Statistics 1987

**A statistical supplement to the Annual
Report of the Minister of Natural
Resources for the year ending
March 31, 1987.**

\$2.00



Ministry of
Natural
Resources

Hon. Vincent G. Kerrio
Minister

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Toll free long distance, 1-800-268-7540, in area code 807 dial 0-Zenith 67200.

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MINISTRY OF NATURAL RESOURCES

Main Office in Whitney Block, Parliament Buildings, Toronto, Ontario M7A 1W3

Hon. Vincent Kerrio..... Minister of Natural Resources and Energy

George Tough..... Deputy Minister

Richard M. Monzon..... Assistant Deputy Minister,
Administration

George A. McCormack..... Assistant Deputy Minister,
Northern Ontario,
Box 5000, 435 James St. South,
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Northwestern Region
North Central Region
Northern Region
Northeastern Region
Aviation and Fire Management
Centre

Robert J. Bugar..... Assistant Deputy Minister,
Southern Ontario.
Maple, Ontario L0J 1E0
Algonquin Region
Eastern Region
Central Region
Southwestern Region

OFFICE OF DEPUTY MINISTER

Room W-6320, Main Office, Telephone (416) 965-2704

Deputy Minister.....	George Tough.....	W-6320....5-2704
Administrative Assistant.....	Isabel Hart.....	W-6320....5-5873
Secretary.....	Carol Ritchie.....	W-6320....5-5874
Provincial Forester.....	Ken Armson.....	W-6520..963-2095
Special Negotiators, Native Issues.	Mel Crystal.....	W-6312....5-0203
EXECUTIVE CO-ORDINATORS		
Forest Resources Group.....	John Goodman.....	W-3624....5-4319
Outdoor Recreation Group.....	Ron Christie.....	W-2341....5-5661
Lands and Waters Group.....	Mike Garrett.....	W-6626....5-6046
POLICY AND PLANNING SECRETARIAT		
Director.....	Larry Douglas.....	W-6440....5-8422
Secretary.....	Mrs. M. Forbes.....	W-6440....5-8422
Manager, Policy Co-ordination.....	Rae Booth-Horst.....	W-6440....5-6712
Policy Officers.....	Mark Garscadden.....	W-6440....5-6712
	Don Ross.....	W-6440....5-6371
	Toni Wells.....	W-6440....5-6712
	Tony Busynski.....	W-6440....5-6712
Policy Officer - Northern Ontario..	Cam Clark.....	(807)...475-1271
Policy Officer - Southern Ontario..	Bob McClure.....	(416)...832-2761
Policy Analyst.....	Drew Cherry.....	W-6440....5-6371
Special Projects Officer.....	Jim Kearns.....	W-6440....5-6371
Planning Manager.....	Gord Rogers.....	W-6440....5-2899
Resource Management Planning		
Specialist.....	John Slot.....	W-6440....5-2899
Co-ordinator, Plan Input and Review	Ms. Pat Hardy.....	W-6440....5-2899
Environmental Assessment		
Co-ordinator.....	Rick LaPrairie.....	W-6440....5-2899
Environmental Planner		
(Forest Resources).....	Al Bisschop.....	W-6440....5-2899
Environmental Planner (Parks).....	Randy Pickering.....	W-6440....5-2899
Environmental Planner.....	Al Parkinson.....	W-6440....5-2899
Freedom of Information Co-ordinator	Don Ross.....	W-6440....5-6371

MINISTRY REGIONS AND DISTRICTS

Areas in Square Kilometres *

NORTHWESTERN REGION

Dryden	11,961	
Fort Frances	10,847	
Ignace	11,463	
Kenora	14,188	
Red Lake	64,105	
Sioux Lookout	<u>112,097</u>	<u>224,661</u>

Pt. Rainy Lake	1,222	
Pt. Lake of the Woods	<u>2,427</u>	<u>3,649</u>

Total, Region		<u>228,310</u>
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NORTHERN REGION

Chapleau	23,602	
Cochrane	30,715	
Gogama	7,752	
Hearst	25,245	
Kapuskasing	21,225	
Kirkland Lake	13,312	
Moosonee	215,741	
Timmins	<u>7,899</u>	<u>345,491</u>

Pt. Lake Abitibi	<u>790</u>	<u>790</u>
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Total, Region		<u>346,281</u>
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ALGONQUIN REGION

Algonquin Park	9,376	
Bancroft	4,239	
Bracebridge	6,454	
Minden	4,745	
Parry Sound	7,187	
Pembroke	<u>7,306</u>	<u>39,307</u>

Pt. Georgian Bay	<u>3,875</u>	<u>3,875</u>
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Total, Region		<u>43,182</u>
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SOUTHWESTERN REGION

Aylmer	6,731	
Chatham	7,389	
Owen Sound	7,817	
Simcoe	2,818	
Wingham	<u>6,889</u>	31,644

Pt. Lake Huron and Lake Erie	30,950	
Pt. Lake St. Clair	<u>673</u>	<u>31,624</u>

Total, Region		<u>62,268</u>
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NORTH CENTRAL REGION

Atikokan	11,321	
Geraldton	112,784	
Nipigon	25,574	
Terrace Bay	12,673	
Thunder Bay	<u>28,451</u>	<u>190,803</u>

Lake Nipigon	5,006	
Pt. Lake Superior	16,017	<u>21,023</u>

Total, Region		<u>211,826</u>
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NORTHEASTERN REGION

Blind River	9,516	
Espanola	9,523	
North Bay	10,668	
Sault Ste. Marie	7,912	
Sudbury	12,725	
Temagami	6,856	
Wawa	<u>22,535</u>	79,735

Pt. Lake Huron and Lake Superior	25,298	
Lake Nipissing	816	
Lake Wahnapiatae	<u>145</u>	<u>26,259</u>

Total, Region		<u>105,994</u>
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EASTERN REGION

Brockville	3,496	
Carleton Place	6,277	
Cornwall	5,594	
Napanee	6,537	
Tweed	<u>6,605</u>	<u>28,509</u>

Pt. Lake Ontario	4,333	<u>4,333</u>
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Total, Region		<u>32,842</u>
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CENTRAL REGION

Cambridge	7,141	
Huron	6,550	
Lindsay	6,856	
Maple	4,812	
Niagara	<u>2,670</u>	<u>28,029</u>

Pt. Lake Ontario and Lake Erie	8,109	
Lake Simcoe	<u>741</u>	<u>8,850</u>

Total, Region		<u>36,879</u>
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TOTALS

47 Districts	968,179
12 Lakes	<u>100,403</u>

Area of Ontario	1,068,582
-----------------	-----------

* August 19, 1980
 Surveys, Mapping and Remote Sensing Branch

FOREST RESOURCES GROUP

Room W-3623, Main Office

Telephone (416) 965-2785

Executive Co-ordinator.....	John Goodman.....	W-3624...5-4319
Secretary.....	Olive Andrews.....	W-3624...5-8538
S. S. Marie Relocation Co-ordinator...	Trevor Isherwood..	W-3622...5-3040
Chief Forest Economist.....	Dr. Fern Miller...	W-3627...5-2785

FOREST RESOURCES BRANCH

Room W-3640, Main Office

Telephone (416) 965-2575

Director.....	Larry Lambert.....	W-3646...5-2787
Secretary.....	Greg Peters.....	W-3646...5-2587

FOREST PRODUCTION & CONTROL SECTION

Section Manager.....	John Cary.....	W-3649...5-2575
Section Secretary.....	Robin Gregory.....	W-3640...5-2575
Project Forester.....	Dave Gordon.....	W-3644...5-0378
Tree Seed & Forest Genetics Unit		
Supervisor.....	Marie Rauter.....	W-3634...3-1334
Tree Improvement Silviculturist.....	Celia Graham.....	W-3632...3-1334
Geneticist.....	Jim Hood.....	W-3632...3-1334
Silvicultural Info. System Manager..	Pat Corbett.....	W-3632...3-1334
Stock Planting Production Unit		
Supervisor.....	Ron Reffle.....	W-3655...5-2575
Stock Production Analyst.....	Tony Citro.....	W-3633...3-1334
Soil & Plant Analyst.....	Vic Sadreika.....	W-3653...5-2575
Co-ordinator, Tree Distribution.....	Henry Tiemann.....	W-3654...5-2575
Silvicultural Data Controller.....	Bob Crawford.....	W-3648...5-2575
Co-ordinator, Professional Development.....	Wim Vonk.....	W-3621...5-2785
Co-ordinator, Technology Development.....	vacant.....	W-3631...5-2785

STRATEGIC TARGETS & PROGRAM CONTROL SECTION

Section Manager.....	vacant.....	W-3643...5-0378
Forest Production Analyst.....	Jerry Kroetsch....	W-3650...5-2575

PRIVATE LAND FORESTRY SECTION

Section Manager.....	Bob Staley.....	W-3630...5-2785
Agreement Forest Administrator.....	Joan Brown.....	W-3629...5-2785
Woodlands Improvement Clerk.....	Peter Rutherford..	W-3645...5-0378

PEST CONTROL SECTION

Section Manager.....	Ron Lessard.....	Maple..832-2761
Pest Control Adviser.....	vacant.....	Maple..832-2761
Provincial Entomologist.....	Joe Churcher.....	Maple..832-2761
Provincial Pathologist.....	Dr. Jenny Juzwik...	Maple..832-2761
Provincial Herbicide Specialist.....	Dr. Bob Campbell...	Maple..832-2761
Provincial Applications Specialist..	vacant.....	Maple..832-2761

CANADA-ONTARIO FOREST RESOURCE
DEVELOPMENT AGREEMENT

Administrator.....	Toni Wells.....	863 Bay St. 5-2073
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ONTARIO TREE IMPROVEMENT AND FOREST
BIOMASS INSTITUTE (OTIFBI)

Maple, Ontario L0J 1E0 Telephone (416) 832-7270

General Manager.....	Doug Drysdale.....	832-7266
Executive Officer.....	Diana Callaghan.....	832-7268
Technology Transfer Specialist.....	David Bates.....	832-7279
Scientific Photographer.....	Jean Robinson.....	832-7260

TREE IMPROVEMENT AND BIOMASS SECTION

Tree Improvement Unit

Principal Scientist	Dr. George Buchert.....	832-7295
Research Scientist		
Genecology Spruce.....	Dr. Alan G. Gordon..Sault Ste. Marie	(705) 949-9461

Forest Biomass Unit

Unit Leader.....	Harvey W. Anderson.....	832-7264
Research Scientist Upland		
Silviculture.....	Peter Jaciw.....	832-7277
Research Scientist, Biotechnology.....	Dr. Rong H. Ho.....	832-7278
Research Scientist, Tree Seed.....	Doug A. Skeates.....	832-7286
Research Scientist, Aspen		
Silviculture.....	Dave Weingartner.....	Thunder Bay (807) 767-1607

Nursery/Greenhouse Arboreta

Unit Leader.....	Ken Bennett.....	832-7293
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FOREST ECOLOGY AND SILVICULTURE SECTION

Site and Productivity Unit

Principal Scientist.....	Dr. Dys Burger.....	832-7284
Principal Scientist.....	Dr. Chris Glerum.....	832-7272
Research Scientist, Boreal		
Mixed Woods.....	Blake MacDonald.....	Thunder Bay (807) 767-1607
Biomath/Program Analyst.....	Bob Forslund.....	Thunder Bay (807) 767-1607

Silviculture and Tree Biology Unit

Unit Leader, Tree Physiologist	Dr. Chris Glerum.....	832-7272
Scientist, Tree Physiology Lab.....	Young-Tae Kim.....	832-7361
Tree Physiologist Lab Techologist...	Dr. Ernie Chen.....	832-7361
Research Scientist, Plant Stock.....	Steve J. Colombo.....	832-7288
Research Scientist, Artificial		
Regeneration - Boreal.....	Dr. Keith McClain.....	Thunder Bay (807) 767-1607
Silviculture Specialist.....	George Stroempl.....	832-7291
Manager, Midhurst Research Unit.....	Bob Hutchison.....	Midhurst (705) 737-5510

USE OF NURSERY STOCK IN YEAR ENDING MARCH 31, 1987

Use	Bare Root Ministry	Container Ministry	Contract	Total
Crown Land and Agreement				
Forest	47,228,011	7,646,953	77,735,254	132,610,218
W.I.A.	8,114,765	-	-	8,114,765
Other Private Land	13,367,345	-	-	13,367,345
Education or Science	597,472	-	-	597,472
Miscellaneous	-	-	-	-
TOTAL	69,307,593	7,646,953	77,735,254	154,689,800

FOREST TREES PRODUCED AND PURCHASED BY THE MINISTRY

Year	Bare Root Ministry	Container Ministry	Contract	Total
1975	59,794,450	3,148,406	-	62,942,856
1976	50,944,733	5,346,866	-	56,291,599
1977	45,981,122	4,291,764	-	50,272,886
1978	48,291,842	5,461,375	-	53,753,217
1979	52,928,125	5,487,210	-	58,415,335
1980	61,453,461	7,944,817	-	69,398,278
1981	65,360,243	10,496,839	-	75,857,082
1982	69,448,150	13,950,538	-	83,398,688
1983	63,660,427	10,999,088	5,466,142	80,125,657
1984	67,472,981	14,743,138	25,256,448	107,472,567
1985	52,183,189	13,964,217	62,084,413	128,231,819
1986	70,342,952	8,750,363	70,483,959	149,577,274
1987	69,307,593	7,646,953	77,735,254	154,689,800

PLANTING STOCK DISTRIBUTION

Bare Root Nursery Stock	
conifers	67,396,415
hardwoods	<u>1,911,178</u>
Total	69,307,593
Container Stock (conifers)	
ministry facilities	7,646,953
contract facilities	<u>77,735,254</u>
Total	<u>85,382,207</u>
GRAND TOTAL	<u>154,689,800</u>

TREE PRODUCTION BY SPECIES

Number of trees in years ending March 31

Species	1983	1984	1985	1986	1987
White Spruce	16,396,972	15,037,822	11,302,704	17,113,719	13,934,765
Black Spruce	18,847,802	35,772,366	48,298,559	57,819,505	63,692,384
Red Pine	6,707,858	7,125,973	4,771,746	6,087,527	5,060,898
Jack Pine	21,744,405	33,456,807	45,991,911	50,190,145	53,698,739
White Pine	7,595,781	7,575,437	9,809,085	9,119,240	9,291,400
White Cedar	2,984,424	2,355,744	1,788,336	1,253,611	2,965,399
Scotch Pine	906,075	1,874,825	2,346,725	2,831,925	2,659,254
Silver Maple	502,402	413,503	594,032	329,217	166,912
Norway Spruce	1,021,589	873,810	487,910	1,515,633	879,432
Carolina Poplar	404,549	404,128	302,230	463,823	371,440
Black Walnut	333,125	330,585	319,425	330,650	193,327
White Ash	57,218	100,099	71,706	382,825	25,099
European Larch	164,918	123,540	59,925	78,170	347,310
Red Oak	178,717	179,827	42,858	189,119	283,343
Black Locust	217,950	158,875	67,640	197,575	147,850
Tamarack	434,983	163,826	260,560	136,673	165,675
Hemlock	14,725	17,264	23,600	25	-
Hybrid Poplar					
Rooted	53,042	52,504	26,730	20,036	20,186
Unrooted	1,079,038	954,520	935,081	1,077,430	549,020
Japanese Larch	129,350	162,350	102,350	31,250	59,555
Other Species	350,734	338,762	628,706	409,176	177,812
TOTALS	80,125,657	107,472,567	128,231,819	149,577,274	154,689,800

TREES SUPPLIED FOR PLANTING ON PRIVATE LANDS

in year ending March 31

County, District or Regional Municipality	1983	1984	1985	1986	1987
Algoma	251,205	373,630	255,078	210,115	574,000
Brant	122,125	169,600	144,345	191,400	170,525
Bruce	138,851	193,992	176,485	225,790	209,000
Cochrane	536,825	792,140	257,925	23,625	2,750
Dufferin	307,250	368,495	390,450	563,555	496,750
Dundas	73,972	121,360	75,901	295,890	158,090
Durham*	487,200	531,925	489,175	599,144	462,262
Elgin	189,162	197,437	216,217	241,585	257,275
Essex	199,307	225,781	138,837	268,897	285,050
Frontenac	112,800	115,110	152,325	230,250	210,130
Glengarry	136,350	74,800	129,550	141,500	120,630
Grey	487,980	568,150	529,653	724,550	476,711
Haldimand-Norfolk	520,725	468,362	488,959	643,780	630,559
Haliburton	26,800	23,700	36,850	36,000	25,625
Halton	105,385	182,883	126,515	142,000	138,850
Hastings	178,422	360,897	227,013	357,350	262,223
Huron	147,279	244,654	274,237	164,594	119,045
Kenora	519,125	529,050	264,375	310,775	60,750
Kent	320,655	270,300	157,050	185,550	254,450
Lambton	174,693	150,309	94,571	261,774	271,850
Lanark	155,000	158,850	143,700	167,550	144,120
Leeds & Grenville	249,795	328,626	266,150	275,777	277,610
Lennox & Addington	154,095	109,600	69,700	187,950	130,129
Manitoulin	16,350	20,125	10,600	15,075	24,435
Middlesex	440,800	480,350	329,960	557,295	476,415
Muskoka	57,845	56,459	154,650	121,050	54,050
Niagara	211,336	310,746	195,152	367,221	257,622
Nipissing	75,455	293,100	187,757	292,637	169,200
Northumberland*	423,148	387,473	266,280	321,995	342,351
Ontario*	1,700	-	570	-	-
Ottawa-Carleton	160,530	162,805	197,155	262,665	324,750
Oxford	175,996	150,975	136,680	258,540	268,650
Parry Sound	50,625	155,225	64,035	112,200	71,210
Peel	188,300	192,635	292,235	180,070	106,289
Perth	169,190	114,115	93,650	155,100	144,595

County, District or Regional Municipality	1983	1984	1985	1986	1987
Peterborough	148,111	217,215	174,562	233,655	192,700
Prescott	250,400	131,150	120,700	100,235	231,750
Prince Edward	72,100	166,150	173,700	185,600	84,227
Rainy River	13,650	67,940	382,900	186,467	82,025
Renfrew	282,925	595,720	207,750	373,420	309,750
Russell	128,150	133,855	144,732	221,223	330,780
Simcoe	1,006,995	1,096,576	1,061,074	1,300,620	1,097,245
Stormont	60,500	93,095	182,290	67,700	202,760
Sudbury	590,029	490,255	358,807	512,853	271,950
Thunder Bay	62,975	206,150	241,575	230,520	403,055
Timiskaming	23,400	154,950	43,850	30,125	305,650
Victoria	204,725	251,689	200,502	260,079	187,255
Waterloo	86,575	190,075	139,425	111,521	106,955
Wellington	798,607	675,938	938,051	847,381	796,225
Wentworth	299,198	350,579	244,825	266,840	281,961
York	438,280	478,705	471,518	504,410	504,956
Durham Regional Municipality	-	400	-	-	150

TOTALS

1983	12,032,896**
1984	14,184,101**
1985	12,120,046**
1986	14,525,898**
1987	13,367,345**

* These figures do not reflect the formation of the
Regional Municipality of Durham

** Excluding W.I.A.

FOREST AREAS MANAGED BY THE MINISTER

in hectares at March 31, 1987

Agreement Holders	Term of Agreement	Released 1986-87	Added 1986-87	Total
GOVERNMENT OF CANADA				
National Capital Commission	Apr. 1961 - Mar. 2011	-	-	1,704.13
21 CONSERVATION AUTHORITIES				
Ausable Bayfield	Jan. 1983 - Mar. 2004			1,905.26
Cataragui Region	Apr. 1971 - Mar. 1996			342.31
Catfish Creek	Apr. 1962 - Mar. 2002			254.55
Crowe Valley	Jan. 1963 - Dec. 2003		80.94	80.94
*Ganaraska Region	Apr. 1977 - Mar. 2002	0.78	746.74	4,242.14
Grand River	Apr. 1961 - Mar. 2000			1,657.72
Grey Sauble	Jan. 1985 - Mar. 2005			4,495.55
Lakehead Region	May 1958 - Apr. 2008			670.85
Long Point Region	Apr. 1982 - Mar. 2000		36.70	2,648.25
Lower Thames Valley	Apr. 1984 - Mar. 2004			121.41
Maitland Valley	Apr. 1955 - Mar. 2005			343.58
Metropolitan Toronto & Region	Apr. 1975 - Mar. 2000			785.38
Moirs River	Apr. 1978 - Mar. 2000			6,766.66
Napanee Region	Oct. 1954 - Oct. 2004			2,732.44
Niagara Peninsula	June 1963 - Mar. 2003			95.52
Otonabee Region	Apr. 1976 - Mar. 2002		32.38	1,497.42
Raisin Region	Apr. 1971 - Mar. 2001			137.59
Saugeen Valley	June 1985 - May 2005		60.70	5,346.09
South Nation River	Apr. 1975 - Mar. 2000		70.81	3,173.99
St. Clair Region	May 1985 - Apr. 2005			60.70
Upper Thames River	Apr. 1961 - Mar. 2001			1,363.29
Sub-total		0.78	1,028.27	38,721.64

* Revised acreage total

Agreement Holders	Term of Agreement	Released 1986-87	Added 1986-87	Total
<hr/>				
8 TOWNSHIPS				
Charlottenburgh	Apr. 1975 - Mar. 1995			77.70
Cramahe	Apr. 1963 - Mar. 2003			65.56
Cumberland	July 1980 - June 2030			371.68
Darlington	Apr. 1971 - Mar. 1991			56.66
Machar	Sept 1963 - Aug. 1993			36.42
Mosa	Apr. 1963 - Mar. 2003			58.27
West Carleton	Apr. 1983 - Mar. 2003			174.34
Williamsburg	Apr. 1962 - Mar. 2002			161.87
Sub-total				1,002.50

Agreement Holder	Term of Agreement	Released 1986-87	Added 1986-87	Total
<hr/>				
19 COUNTIES				
Brant	Apr. 1960 - Mar. 2000			40.19
Bruce	Apr. 1962 - Mar. 2002			6,106.03
Dufferin	Apr. 1971 - Mar. 1991			1,019.21
Grey	Apr. 1960 - Mar. 2000			3,481.19
Huron	Apr. 1960 - Mar. 2000			662.30
Kent	Apr. 1960 - Mar. 2000			30.51
Lanark	Apr. 1980 - Mar. 2000		199.11	4,265.92
Leeds & Grenville	Apr. 1975 - Mar. 1995			5,802.18
Lennox & Addington	Apr. 1960 - Mar. 2000			473.04
Middlesex	Apr. 1960 - Mar. 2000			980.96
Northumberland	Apr. 1981 - Mar. 2001			2,603.98
Oxford	Apr. 1961 - Mar. 2000			342.06
Peterborough	Apr. 1981 - Mar. 2001			80.94
Prescott & Russell	Apr. 1983 - Mar. 2003	226.62	61.70	10,436.31
* Renfrew	Apr. 1960 - Mar. 2000	62.77	.52	6,435.31
Simcoe	Apr. 1960 - Mar. 2000		20.23	10,650.60
Stormont, Dundas & Glengarry	Apr. 1975 - Mar. 2000			3,233.63
Victoria	Nov. 1976 - Mar. 2000			3,794.31
Wellington	Apr. 1963 - Mar. 2003			521.44
Sub-total		289.39	281.56	60,960.11

* Reconciliation adjustment

Agreement Holders	Term of Agreement	Released 1986-87	Added 1986-87	Total
5 REGIONAL MUNICIPALITIES				
Durham	May 1980 - Apr. 2000	1.23		589.82
Halton	Apr. 1976 - Mar. 2000			632.14
Ottawa-Carleton	Apr. 1974 - Mar. 2004			5,621.70
Waterloo	Apr. 1976 - Mar. 2001		8.90	313.44
York	Apr. 1977 - Mar. 2027			2,030.48
Sub-Total		1.23	8.90	9,187.58

INDUSTRY

Domtar Inc.	Apr. 1974 - Mar. 1999	174.21	1,596.52
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TOTAL 55 Managed Forest Areas

Added 1986-87	1,492.94
Released 1986-87	291.40
Total	113,172.48

SILVICULTURAL OPERATIONS

Classification of Cutover Forest Land
for year ended March 31, 1986
Area in hectares

	Crown Land	FMA's	Total Crown Land	Agree- ment Forests	W.I.A.	Other Patent Lands	Total
Harvest Cut, even-aged management	100,785	87,823	188,608	138	-	3,522	192,268
Harvest Cut, uneven-aged management	11,591	-	11,591	194	1,992	17,472	31,249
TOTAL	112,376	87,823	200,199	332	1,992	20,994	223,517

Area Cut on
Crown and Patent Land
in years ending March 31
area in hectares

	1982	1983	1984	1985	1986
Harvest Cut, even-aged management	200,337	153,086	187,319	185,172	192,268
Harvest Cut, uneven-aged management	22,584	30,122	30,487	32,812	31,249
Total	223,191	183,208	217,806	217,984	223,517

SUMMARY OF SILVICULTURAL OPERATIONS

Areas in Hectares in year ending March 31, 1987

	Crown Land	Forest Management Agreements	Total Crown Land
REGENERATION			
Planting Bare Root Stock	10,216	12,404	22,620
Planting Container Stock	16,416	23,469	39,885
Planting Hybrid Poplar Cuttings	48	-	48
Seeding	6,953	13,972	20,925
Scarification	148	299	447
Strip Cutting	465	567	1,032
Seed Tree Cutting	1,579	788	2,367
Shelterwood Cutting	8,717	-	8,717
Clear Cutting	6,617	8,734	15,351
Total	51,159	60,233	111,392
RE-TREATMENT			
Re-treatment area included in planting and total regeneration figures above	2,297	1,467	3,764
TENDING			
Hand Cleaning	10,259	401	10,660
Herbicide Spraying	20,644	38,635	59,279
Thinning & Improvement	9,041	363	9,404
Pruning	1,017	-	1,017
Fertilization Drainage	9	-	9
Total	40,970	39,399	80,369
SITE PREPARATION	46,429	60,643	107,072
UNEVEN-AGED MANAGEMENT	13,202	-	13,202
TOTAL AREA TREATED	151,760	160,275	312,035

Agreement Forests	W.I.A.	Sub-total	Other Patent Lands	Total
193	4,858	27,671	5,581	33,252
50	126	40,061	106	40,167
255	4	307	131	438
-	-	20,925	-	20,925
-	-	447	-	447
-	9	1,041	-	1,041
-	-	2,367	-	2,367
23	-	8,740	642	9,382
10	32	15,393	195	15,588
531	5,029	116,952	6,655	123,607
93	1,476	5,333	49	5,382
386	588	11,634	54	11,688
373	2,687	62,339	172	62,511
1,139	2,061	12,604	2,316	14,920
331	268	1,616	19	1,635
161	-	170	124	294
2,390	5,604	88,363	2,685	91,048
634	1,827	109,533	172	109,705
154	953	14,309	8,052	22,361
3,709	13,413	329,157	17,564	346,721

CROWN LANDS TREATED

Areas in hectares in years ending March 31

Silvicultural Operations	1983	1984	1985	1986	1987
REGENERATION					
Planting Bare Root					
Stock.....	21,272	21,286	15,527	22,725	22,620
Planting Container					
Stock.....	7,305	17,889	36,963	38,521	39,885
Planting Hybrid Poplar					
Cuttings.....	19	286	100	358	48
Seeding.....	29,857	21,180	15,908	18,683	20,925
Scarification.....	817	1,110	879	1,050	447
Strip Cutting.....	1,445	718	1,145	1,641	1,032
Seed Tree Cutting.....	3,215	4,204	2,489	2,361	2,367
Shelterwood Cutting.....	9,431	10,308	9,232	8,771	8,717
Clear Cutting.....	7,552	14,121	8,960	9,437	15,351
Total.....	80,913	91,102	91,203	103,547	111,392
RE-TREATMENT.....	2,353	3,483	3,949	4,462	3,764
TENDING					
Hand Cleaning.....	5,844	6,282	7,696	9,384	10,660
Herbicide Spraying.....	26,165	21,125	42,023	57,566	59,279
Thinning & Improvement	6,698	6,908	6,591	8,845	9,404
Pruning.....	756	751	596	934	1,017
Fertilization Drainage.....	87	207	58	65	9
Total.....	39,550	35,273	56,964	76,794	80,369
SITE PREPARATION	67,583	74,064	83,808	94,687	107,072
MARKING	37,229	42,301	-	-	-
UNEVEN-AGED MANAGEMENT	-	-	11,769	13,529	13,202
TOTAL AREA TREATED	225,275	242,740	243,744	288,557	312,035

TREE SEED PROGRAM 1986-87

SEED COLLECTION

Seed Crop By Species	Volume Collected (h1)
Jack Pine	8,794.73
Black Spruce	1,548.93
White Pine	641.87
Red Pine	179.08
White Cedar	52.23
Other species	33.41
Total	11,250.25

1986 SEED DISTRIBUTION

Direct seeding	1,248,004,493
Nursery stock production	457,566,061
Container stock production	303,889,971
Research and miscellaneous	32,078,377
Disposal of low viable seed	94,252,877
Tree seed sale	29,884,754
Total viable seed	2,165,676,533

SEED IN STORAGE AS OF MARCH 31, 1987

	Dryden	Angus	Total
No. of viable seed (billion)	3.486	11.553	15.039
No. of different species	2	37	37
Total weight (kg)	12,910	38,088	50,998
Total value (million)	2.663	10.005	12.668

TREE SEED AREAS

Areas in hectares

Species	Seed Collection Areas	Seed Production Areas	Seed Orchards (areas planted to date)
Jack Pine	13,980.50	1,192.80	190.00
Black Spruce	1,002.10	180.40	218.40
White Pine	558.00	598.50	123.10
White Spruce	118.80	202.00	151.90
Others	704.90	621.70	20.20
Total	16,364.30	2,795.40	703.60

1986-7 FORESTRY EXTENSION ACTIVITIES

Field inspections	9,963
Management programs prepared	2,405
Volume of timber marked - sawlogs (cubic metres)	130,545
- pulpwood (cubic metres)	23,651
- fuelwood (cubic metres)	196,846
Forestry education activities	1,442
Total trees planted - private orders	13,367,345

THE WOODLANDS IMPROVEMENT ACT 1986-87

	No. of Agreements	Area in Hectares
New W.I.A. Agreements Activated in 1986-87	530	6,570
Total W.I.A. Agreements in effect to March 31, 1987	9,954	139,371
New Advisory Service Agreements Activated in 1986-87	68	959
Advisory Service Agreements in effect to March 31, 1987	352	6,050
Total Trees Planted - W.I.A.:	8,114,765	

FOREST RESOURCES GROUP

TIMBER SALES BRANCH

Room W-3610, Main Office

Telephone (416) 965-2731 or 963-2396

Director.....	Ed Markus.....	W-3612...965-3948
Special Projects Co-ordinator..	Ron Alton.....	W-3610.....3-2396

TIMBER ALLOCATION SECTION

Manager.....	Ken Cleary.....	W-3611...3-2396
Timber Licensing Supervisor.....	Rudy Beny.....	W-3610...3-2396
Senior Licensing Clerk... ..	Frank Parris.....	W-3601...5-2731
Industrial Liaison Officer.....	Bill Wardle.....	W-3625...5-2785
Forest Economist.....	Al Nausedas.....	W-3601...5-2731
Forest Industry Statistician...	Orlando Menezes.....	W-3601...5-2731

MANAGEMENT PLANS SECTION

Manager.....	Tom Tworzyanski.....	W-3522...5-7631
Mensuration Unit		
Supervisor.....	Jocko Mervart.....	W-3526...5-7631
Mensurationist.....	vacant.....	Rm. 168..5-9754 880 Bay St.
Forest Ecologist.....	vacant.....	Rm. 168..5-9755 880 Bay St.
Biomathematician.....	vacant.....	Rm. 168..5-9756 880 Bay St.
Methods and Procedures		
Analyst.....	vacant.....	Rm. 168..5-9756 880 Bay St.
Planning Unit		
Planning Analyst.....	Henk van Bers.....	W-3523...5-7631
A/FMA Co-ordinator.....	John Kus.....	W-3525...5-7631
Asst. Planning Analyst.....	John Kus.....	W-3524...5-7631
Mgmt. Planning Specialist.....	Bob Fleet.....	W-3527...5-7631

FOREST MANAGEMENT INFORMATION SECTION

Manager.....	John Osborn.....	W-3542...5-6914
Forest Resources Inventory Unit		
Operations Supervisor.....	David Trafford.....	W-3543...5-6914
Photo Interpretation Supervisor	Arthur Manley.....	W-3546...5-6914
Project Leader, Compilation....	Janice Ferguson.....	W-3541...5-6914
Spec. Asst. For. Specialist....	Mike Chaudhry.....	W-3545...5-6914
Proj. Leader, Map Revision.....	Douglas Bennett.....	W-3540...5-6914

FOREST GEOGRAPHIC INFORMATION MANAGEMENT UNIT

Supervisor.....	Joseph Kapron.....	M1B-43...3-0882
Sr. Systems Dev. Officer.....	Alex Lee.....	M1B-43...3-0882
GIS Co-ordinator.....	Rob Parry.....	M1B-43...3-0882
GIS Database Administrator.....	Anne Trudell.....	M1B-43...3-0882

WOOD MEASUREMENT SECTION

747 Queen St. E., Box 310, Sault Ste. Marie P6A 5L8 Telephone (705) 942-1873

Manager.....	Bob Schroeder.....	(705) 942-1873
Provincial Wood Measurement		
Training Officer.....	John Bingley.....	(705) 942-1873
Tbr. Scaling & Billing Co-ord..	Ross Johnson.....	(705) 942-1873
Tbr. Scaling & Billing Analyst.	Paul Woods.....	(705) 942-1873

MANAGEMENT UNITS

Areas in square kilometres at March 31

Year	CROWN LAND FORESTS					
	Crown		Company		FMA	
	No.	Area	No.	Area	No.	Area
1983	77	333,781	13	139,120	13	70,218
1984	75	321,122	12	126,461	17	88,971
1985	74	330,575	10	104,577	22	113,631
1986	77	336,864	14	70,909	26	141,030
1987	69	298,554	14	72,189	27	150,626

CROWN LAND FORESTS AGREEMENT FORESTS

Total			
No.	Area	No.	Area
103	543,119	58	1,109
104	536,554	58	1,108
106	548,783	58	1,108
117	548,803	57	1,105
111	533,432	56	1,104

STATUS OF FOREST MANAGEMENT PLANS, MARCH 31, 1987

Areas in square kilometres

	Forest Management Units						Agreement Forests	
	Crown		Company		FMA		No.	Area
	No.	Area	No.	Area	No.	Area	No.	Area
Approved Mgmt. Plans	44	140,618	9	52,933	21	105,950	42	805
Forest Mgmt. Plans submitted for review and approval	2	6,576	2	11,651	3	28,824	5	63
Forest Mgmt. Plans being prepared	13	45,013	3	7,605	4	27,915	9	236
Plans are not req'd (Inactive)	10	106,347	-	-	-	-	-	-
Unalienated Crown Lands	-	3,804	-	-	-	-	-	-
Total	69	302,358	14	72,189	28	162,689	56	1,104

TIMBER LICENCES under the Crown Timber Act
Areas in square kilometres at March 31

Year	Under Section 2 (Sale by Tender)		Under Section 3 (Order-in-Council)		Under Section 5 (Salvage)	
	No.	Area	No.	Area	No.	Area
1983	26	32.3	415	178,967.1	52	545.6
1984	34	37.4	442	159,133.5	29	407.9
1985	34	27.0	456	141,368.3	27	169.6
1986	35	27.6	443	111,578.5	32	389.0
1987	26	36.0	405	88,250.1	19	300.1
Issued 1986/87	19	28.3	192	10,549.4	15	51.0

Under Section 6 (For. Mgmt. Agr.)		Total Licences	
No.	Area	No.	Area
13	79,627.8	506	259,172.8
17	88,998.9	522	248,577.7
22	113,122.2	539	254,687.1
26	145,288.6	536	256,384.7
27	150,625.9	477	239,212.1
1	5,337.3	226	10,628.7

Note: Number of District Cutting Licences/Permits issued during 1986/87 was 2,259; and timber supply agreements signed under Section 4 during 1986/87 was 1 bringing the current total to 23.

MILL LICENCES

Type of Mill	1982	1983	1984	1985	1986
Saw Mills, 8-hour capacity					
Lumber....over 50 M fbm	59	58	55	53	53
Lumber....10 M to 50 M fbm	87	88	72	69	74
Lumber....under 10 M fbm	593	613	599	610	600
Misc. Sawn Products	68	44	45	30	35
Saw Mills, Total	807	803	771	762	762
Veneer and Panelboard Mills	26	25	28	27	26
Pulp Mills	21	20	20	20	20
TOTAL	854	848	819	809	808

TIMBER HARVESTED ON CROWN LANDS BY SPECIES

In cubic metres and \$000s in years ending March 31

Note: Figures for 1987 not available at time of publication.

Species	1982	1983	1984	1985	1986
SOFTWOOD					
Balsam	718,975	586,883	638,428	723,544	809,984
Cedar	13,659	17,195	18,667	23,478	16,741
Hemlock	63,504	47,361	65,111	79,230	71,554
Jack Pine	5,362,713	4,135,200	5,182,626	5,618,274	5,578,024
Red Pine	183,663	168,759	193,575	197,854	400,155
White Pine	529,159	563,024	754,044	728,257	654,854
Spruce	7,724,772	6,707,133	8,423,622	8,987,681	8,407,276
Tamarack	2,330	1,168	2,740	1,311	3,725
Mixed	18,503	30,599	20,691	14,236	18,238
HARDWOOD					
Ash	2,021	1,558	1,516	3,770	1,956
Basswood	11,042	7,769	8,544	27,777	12,099
Beech	19,581	18,377	17,999	32,996	39,951
White Birch	77,523	93,562	83,668	180,990	253,340
Yellow Birch	105,982	78,058	94,616	106,382	109,828
Butternut	16	36	21	38	43
Cherry	1,373	1,584	2,046	2,269	1,830
Elm	39	165	35	19	18
Ironwood	1	1	2	1	1
Maple	219,345	164,317	204,384	447,911	364,855
Oak	11,389	10,415	14,190	13,960	23,937
Poplar	1,800,431	1,505,038	2,243,088	2,641,390	2,768,308
Mixed	647,366	648,316	743,663	852,633	257,607
TOTALS					
Softwoods	14,617,179	12,257,322	15,299,504	16,373,865	15,764,214
Hardwoods	2,896,121	2,529,198	3,413,771	4,310,135	3,833,773
Total	17,513,300	14,786,521	18,713,275	20,684,000	19,597,987
Value	\$42,453	\$35,037	\$47,151	\$60,965	\$60,413

VOLUME AND VALUE OF TIMBER CUT FROM CROWN LANDS

in year ending March 31, 1986

Note: Figures for 1987 not available at time of publication.

Tree Species	Volume in Cubic Metres	Bonus \$	Crown Dues \$	Stumpage Value \$
SOFTWOODS				
White Pine	654,854.339	711,904.47	2,156,301.56	2,868,206.03
Red Pine	203,817.664	186,029.30	626,252.16	812,281.46
Jack Pine	5,578,023.831	602,781.22	18,969,461.04	19,572,242.26
White Spruce	145,107.215	3,764.98	361,584.33	365,349.31
Black Spruce	660,987.408	29,096.17	2,446,672.08	2,475,768.25
Spruce, Mixed	7,601,181.691	825,842.29	26,129,592.00	26,955,434.29
Hemlock	71,554.181	19,455.40	221,324.70	240,780.10
Balsam	809,984.281	64,591.19	2,276,451.32	2,341,042.51
Cedar	16,741.176	3,584.34	49,887.43	53,471.77
Tamarack	3,724.591	175.67	11,184.16	11,359.83
Conifers, Mixed	18,237.669	5,591.82	12,561.73	18,153.55
Total Softwoods	15,764,214.046	2,452,816.85	53,261,272.51	55,714,089.36
HARDWOODS				
Maple	364,854.628	242,215.75	811,524.20	1,053,739.95
Yellow Birch	109,828.010	184,484.71	287,743.93	472,228.64
White Birch	253,339.649	114,228.84	179,483.68	293,712.52
Oak	23,936.682	30,074.90	46,772.01	76,846.91
Beech	39,950.573	12,755.08	96,894.57	109,649.65
Ash	1,956.289	2,411.53	4,735.80	7,147.33
Elm	17.695	36.07	43.75	79.82
Basswood	12,099.403	14,439.97	28,840.81	43,280.78
Butternut	43.456	65.54	95.67	161.21
Cherry	187.351	552.76	1,410.13	1,962.89
Poplar	2,768,308.104	293,651.31	2,067,262.42	2,360,913.73
Hardwoods, Mixed	257,608.631	102,824.31	171,035.58	273,859.89
Total Hardwoods	3,833,773.202	998,473.32	3,700,005.06	4,698,478.38
GRAND TOTAL	19,597,987.248	3,451,290.17	56,961,277.57	60,412,567.74

TIMBER HARVESTED ON CROWN LANDS BY METHOD OF MEASUREMENT

in cubic metres and \$000s in years ending March 31

Note: Figures for 1987 not available at time of publication.

Year	Stacked		Cubic	
	Softwood	Hardwood	Softwood	Hardwood
1980	4,698,427	770,447	6,559,707	715,644
1981	4,380,421	723,064	6,339,098	513,585
1982	3,889,894	558,760	5,070,186	611,389
1983	2,974,245	650,425	4,313,754	525,436
1984	3,192,571	499,699	5,354,306	903,933
1985	3,068,026	648,690	5,220,857	1,396,957
1986	2,758,354	613,599	4,858,816	992,904

Year	Foot Board Measure			Mass		Total	Stumpage Value
	Grade 1	Grade 2	Grade 3	Softwood	Hardwood		
1980	131,394	207,162	109,406	6,213,058		19,405,245	\$46,184
1981	90,064	144,986	70,785	6,475,267		18,737,271	\$43,727
1982	107,244	181,592	81,943	6,719,923		17,513,300	\$42,453
1983	79,545	131,481	71,228	6,040,406		14,786,521	\$35,037
1984	104,431	157,403	81,517	8,419,414		18,713,275	\$47,151
1985	150,831	283,953	200,338	9,714,347		20,684,000	\$60,965
1986	294,270	91,017	-	8,210,945	1,778,082	19,597,987	\$60,413

TIMBER HARVESTED ON CROWN LANDS BY REGION

(Administrative Regions of Ministry of Natural Resources)
in cubic metres in years ending March 31

Note: Figures for 1987 not available at time of publication

Region	1982	1983	1984	1985	1986
Northwestern					
Softwoods	3,688,116	2,888,440	3,830,981	3,856,741	3,759,601
Hardwoods	71,194	76,868	90,337	135,361	137,303
North Central					
Softwoods	4,464,605	4,007,835	4,368,590	4,706,900	4,569,500
Hardwoods	923,375	847,995	1,133,546	1,533,812	1,485,805
Northern					
Softwoods	4,795,869	3,945,635	5,200,631	5,778,030	5,465,850
Hardwoods	538,589	533,394	781,957	740,893	757,997
Northeastern					
Softwoods	1,315,205	1,093,690	1,517,671	1,613,782	1,571,413
Hardwoods	766,063	523,773	703,510	949,961	710,428
Algonquin					
Softwoods	324,081	294,264	363,038	393,113	366,429
Hardwoods	492,500	442,689	606,772	847,382	643,844
Eastern					
Softwoods	29,304	22,852	18,595	23,928	31,422
Hardwoods	104,400	104,479	97,649	101,541	98,396
Central					
Softwoods	-	4,607	-	1,371	-
Hardwoods	-	-	-	1,183	-
Southwestern					
Softwoods	-	-	-	-	-
Hardwoods	-	-	-	-	-
Totals, Ontario					
Softwoods	14,617,179	12,257,322	15,299,504	16,373,865	15,764,214
Hardwoods	2,896,121	2,529,198	3,413,771	4,310,135	3,833,773
Grand Total	17,513,300	14,786,521	18,713,275	20,684,000	19,597,987

TIMBER HARVESTED ON CROWN LANDS BY METHOD OF MEASUREMENT AND TREE SPECIES
in year ending March 31, 1986

Note: Figures for 1987 not available at time of publication

Unit of Measurement Tree Species	Billing Units	Equivalent Cubic Metres	Crown Dues \$	Stumpage Value \$
STACKED, ROUGH				
White Pine	19,248.555	19,248.555	193,051.73	198,715.92
Red Pine	14,504.928	14,504.928	37,842.06	39,335.80
Jack Pine	807,076.669	806,974.440	2,690,755.27	2,758,165.74
Spruce, Mixed	1,221,420.695	1,221,416.336	4,211,408.89	4,357,253.01
Hemlock	0.054	0.054	0.03	0.25
Balsam	103,049.744	103,049.744	273,368.53	288,130.95
Cedar	6,425.341	6,409.690	19,001.38	19,720.15
Tamarack	3,363.301	3,363.301	10,118.90	10,187.11
White Birch	22,144.207	22,135.837	15,230.43	36,757.73
Poplar	426,834.628	425,314.618	293,475.03	328,553.06
Hardwoods, Mixed	2,664.294	2,664.294	1,691.83	1,691.83
SUB-TOTAL	2,616,732.416	2,615,081.797	7,745,944.08	8,038,511.55
STACKED, PEELED				
Jack Pine	109,564.053	109,340.079	407,094.24	412,392.88
Spruce, Mixed	419,081.342	412,912.142	1,558,836.30	1,589,886.75
Balsam	59,328.257	57,212.432	35,191.44	35,485.82
Poplar	93,556.000	89,562.442	74,318.37	78,204.81
SUB-TOTAL	681,529.652	669,027.095	2,075,440.35	2,115,970.26

Note: Figures for 1987 not available at time of publication

Unit of Measurement Tree Species	Billing Units	Equivalent Cubic Metres	Crown Dues \$	Stumpage Value \$
<hr/>				
CUBIC METRES				
White Pine	389,560.736	389,560.736	1,191,201.29	1,647,307.76
Red Pine	106,578.376	106,578.376	330,166.04	451,748.99
Jack Pine	925,989.557	926,008.323	3,211,763.22	3,278,464.28
White Spruce	145,107.215	145,107.215	361,584.33	365,349.31
Black Spruce	660,987.408	660,987.408	2,446,672.08	2,475,768.25
Spruce, Mixed	2,335,926.713	2,335,926.713	7,962,233.30	8,118,952.08
Hemlock	54,935.819	54,935.819	168,059.93	182,497.70
Balsam	160,801.908	160,801.908	529,274.36	545,226.99
Cedar	10,331.486	10,331.486	30,886.05	33,751.62
Tamarack	361.290	361.290	1,065.26	1,172.72
White Birch	63,901.086	63,901.086	45,323.78	75,791.06
Poplar	821,065.006	821,065.006	623,206.62	702,642.60
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SUB-TOTAL	5,675,546.600	5,675,565.366	16,901,436.26	17,878,673.36
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BOARD FOOT MEASURE, GRADE 1				
Maple	183,967.304	183,967.304	719,558.34	915,914.48
Yellow Birch	68,511.650	68,511.650	266,616.83	442,360.10
Oak	10,161.717	10,161.717	39,829.16	64,339.95
Beech	22,693.347	22,693.347	88,073.47	97,842.23
Ash	1,153.599	1,153.599	4,333.01	6,255.28
Elm	10.359	10.359	40.18	46.11
Basswood	6,645.167	6,645.167	26,091.50	37,956.45
Butternut	21.839	21.839	85.32	113.04
Ironwood	0.228	0.228	0.91	0.91
Cherry	1,105.010	1,105.010	5,206.32	6,377.54
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SUB-TOTAL	294,270.220	294,270.220	1,149,835.04	1,571,206.09
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Note: Figures for 1987 not available at time of publication

Unit of Measurement Tree Species	Billing Units	Equivalent Cubic Metres	Crown Dues \$	Stumpage Value \$
BOARD FOOT MEASURE, GRADE 2				
Maple	59,073.592	59,073.592	30,027.18	40,959.79
Yellow Birch	13,031.670	13,031.670	6,601.84	8,816.04
Oak	4,593.657	4,593.657	2,243.14	4,458.85
Beech	9,578.149	9,578.149	4,892.21	5,836.06
Ash	484.369	484.369	240.84	566.82
Elm	0.681	0.681	0.35	0.39
Basswood	3,855.951	3,855.951	1,926.32	3,985.45
Hickory	0.545	0.545	0.28	0.33
Butternut	21.617	21.617	10.35	48.17
Ironwood	0.854	0.854	0.43	0.43
Cherry	376.143	376.143	187.42	259.86
SUB-TOTAL	91,017.228	91,017.228	46,130.36	64,932.19

Note: Figures for 1987 not available at time of publication

Units of Measurement Tree Species	Billing Units	Equivalent Cubic Metres	Crown Dues \$	Stumpage Value \$
MASS-SCALED WOOD				
White Pine	217,634.517	246,045.048	772,048.54	1,022,182.35
Red Pine	72,240.569	82,734.360	258,244.06	321,196.67
Jack Pine	3,017,746.921	3,735,700.989	12,659,848.31	13,123,219.36
Spruce, Mixed	2,805,364.102	3,640,926.500	12,397,113.51	12,889,342.45
Hemlock	17,826.910	16,618.308	53,264.74	58,282.15
Balsam	450,146.285	488,920.197	1,438,616.99	1,472,198.75
White Birch	186,367.528	165,718.365	117,730.91	179,905.11
Poplar	1,418,669.371	1,432,328.833	1,076,235.78	1,251,486.64
Maple	159,210.540	121,813.732	61,938.68	96,865.68
Yellow Birch	36,968.094	28,284.690	14,525.26	21,052.50
Oak	11,999.969	9,181.308	4,699.71	8,048.11
Beech	10,036.563	7,679.077	3,928.89	5,971.36
Ash	359.279	274.891	134.37	297.65
Elm	8.698	6.655	3.22	33.32
Basswood	2,088.956	1,598.285	822.99	1,338.88
Cherry	456.044	348.929	178.90	220.55
SUB-TOTAL	8,407,124.346	9,978,180.167	28,859,334.86	30,451,641.53
FUELWOOD, STACKED, CUBIC METRES				
Conifers, Mixed	15,793.055	13,922.175	9,491.96	9,515.47
White Birch	1,240.176	1,240.176	950.63	996.51
Hardwoods, Mixed	72,681.306	72,681.306	47,174.71	70,415.92
SUB-TOTAL	89,714.537	87,843.657	57,617.30	80,927.90
FUELWOOD, CUBIC METRES				
Conifers, Mixed	4,315.494	4,315.494	3,069.77	8,638.08
White Birch	344.185	344.185	247.93	262.11
Poplar	37.205	37.205	26.62	26.62
Hardwoods, Mixed	171,457.896	171,457.896	114,266.04	193,143.80
SUB-TOTAL	176,154.780	176,154.780	117,610.36	202,070.61
FUELWOOD, MASS-SCALED				
Hardwoods, Mixed	12,364.206	10,846.938	7,928.96	8,634.25
SUB-TOTAL	12,364.206	10,846.938	7,928.96	8,634.25
TOTAL TIMBER CUT IN PROVINCE				
		19,597,987.248	56,961,277.57	60,412,567.74

Number of District Cutting Licences/Permits issued and included in the above: 2,259

PRINCIPAL STATISTICS OF ONTARIO'S FOREST INDUSTRY BY SECTOR

Source: Statistics Canada

Sector	Establishments Number	Total Employees Number	Total Salaries & Wages \$000s	Fuel and Electricity \$000s
1981				
Logging	418	9,003	230,052	30,562
Wood Industries	774	20,970	362,998	43,705
Paper & Allied	342	47,381	1,044,810	324,780
Total	1,534	77,354	1,637,860	399,047
Furniture and Fixtures	610	25,856	416,922	15,181
1982				
Logging	418	7,079	193,796	33,320
Wood Industries	794	19,015	334,260	46,144
Paper & Allied	347	43,917	1,078,919	351,385
Total	1,559	70,011	1,606,975	430,849
Furniture and Fixtures	644	23,684	398,558	19,285
1983				
Logging	472	7,826	227,797	39,425
Wood Industries	820	19,562	381,158	54,659
Paper & Allied	301	41,001	1,110,513	381,789
Total	1,593	68,389	1,719,468	475,873
Furniture and Fixtures	697	23,218	427,289	21,248
1984				
Logging	484	9,515	275,809	44,724
Wood Industries	838	20,840	432,202	61,128
Paper & Allied	311	41,690	1,181,223	408,817
Total	1,633	72,045	1,889,234	514,669
Furniture and Fixtures	713	24,050	471,923	21,687
1985				
Logging	518	8,482	260,439	45,803
Wood Industries	851	23,207	507,511	67,132
Paper & Allied	317	40,990	1,245,332	404,954
Total	1,686	72,679	2,013,282	517,889
Furniture and Fixtures	714	26,248	564,144	25,193

Sector	Materials & Supplies \$000s	Value of Shipments \$000s	Total Value Added \$000s
1981			
Logging	381,431	717,927	327,515
Wood Industries	791,939	1,436,082	619,138
Paper and Allied	2,702,821	5,129,829	2,136,084
Total	3,876,191	7,283,838	3,082,737
Furniture and Fixtures	718,103	1,455,964	755,591
1982			
Logging	346,243	678,892	287,982
Wood Industries	678,066	1,256,366	525,522
Paper & Allied	2,596,915	4,841,076	1,939,371
Total	3,621,224	6,776,334	2,752,875
Furniture and Fixtures	646,963	1,347,435	682,402
1983			
Logging	398,704	793,959	355,758
Wood Industries	848,804	1,572,204	698,513
Paper & Allied	2,676,283	5,041,628	2,010,011
Total	3,923,791	7,407,791	3,064,282
Furniture and Fixtures	726,010	1,522,637	785,228
1984			
Logging	514,580	922,640	394,618
Wood Industries	999,172	1,795,703	774,791
Paper & Allied	3,044,817	5,851,884	2,466,296
Total	4,558,569	8,570,227	3,635,705
Furniture and Fixtures	811,176	1,716,607	900,633
1985			
Logging	501,838	949,222	389,669
Wood Industries	1,140,014	2,103,431	912,629
Paper & Allied	3,186,653	6,036,236	2,476,824
Total	4,828,505	9,088,889	3,779,122
Furniture and Fixtures	945,051	2,008,981	1,056,810

Note:

Furniture and Fixtures does not include furniture re-upholstery and repair shops.

OUTDOOR RECREATION GROUP

Room 2340, Whitney Block Telephone (416) 965-5661

Executive Co-ordinator.....	Ron Christie.....	W-2341...5-5661
Secretary.....	Naomi Ball.....	W-2340...5-5661
Enforcement Specialist.....	Dale Gartley.....	W-2342...5-5661
Librarian.....	Sandra Louet.....	W-4540...5-6319

WILDLIFE BRANCH

Room 2320, Whitney Block Telephone (416) 965-4252

Branch Director.....	Don Simkin.....	W-2327..5-4254
Wildlife Planning Co-ordinator.....	Paul Gray.....	W-2325..5-4252

Program Development & Audit Section

Supervisor.....	Doug Hagan.....	W-2321..5-4252
Habitat Development.....	David Hogg.....	W-2309..5-7641
Deer/Caribou Program.....	Ray Stefanski.....	W-2331..5-4252
Upland Game/Waterfowl Program...	John Harcus.....	W-2332..5-4252
Moose/Bear Program.....	Howard Smith.....	W-2323..5-4252
Non-game Program.....	Irene Bowman.....	W-2330..5-4252
Wetland Habitat.....	Valanne Glooschenko....	W-2322..5-7641

Extension Development Section

Supervisor.....	Laurel Whistance-Smith.	W-2326..5-4252
Wildlife Extension Co-ordinator.	vacant.....	W-2320..5-4252
Wildlife Education Co-ordinator.	Anne Nicholson.....	W-2308..5-7641
Provincial CWIP Co-ordinator....	vacant.....	W-2308..5-7641

Wildlife Services Section

Supervisor.....	Murray Smith.....	W-2328..5-4252
Fur Management Program.....	Milan Novak.....	W-2423..5-3345
Hunter Education Program.....	William McKittrick.....	W-2306..5-7641
Legislation Co-ordinator.....	Mor Chromec.....	W-2329..5-4252
Data Systems Co-ordinator.....	John Barbowski.....	W-2304..5-7641
Wildlife Surveys and Records....	Brian Shawcross.....	W-1612..5-8945

Wildlife Research Section

Box 50, Maple, Ont. L0J 1E0 Telephone (416) 832-2761

Supervisor.....	Charles MacInnes.....	832-7110
Population Dynamics.....	David Hussell.....	832-7137
Bio-Electronic Scientist.....	vacant	
Field Studies Scientist.....	Dennis Voigt.....	832-7151
Rabies Unit Leader.....	David Johnston.....	832-7114
Upland Game/Waterfowl Scientist.	Harry Lumsden.....	832-7120
Predator Scientist.....	George Kolenosky.....	832-7129
Disease/Parasites Scientist.....	Edward Addison.....	832-7124

HUNTING STATISTICS - Estimates compiled from hunters surveyed by mail

Year	RESIDENT			NON-RESIDENT		
	Hunters	Hunter Days	Harvest	Hunters	Hunter Days	Harvest
MOOSE						
1981	66,850	405,500	7,630	3,110	19,400	460
1982	85,630	508,100	10,150	3,060	19,200	550
1983	69,780	537,400	8,640	2,080	13,300	410
1984	77,020	582,900	9,850	2,130	13,700	480
1985	76,130	576,100	9,580	2,640	16,800	610
1986	77,410	595,100	11,110	2,770	18,200	700
DEER						
1981	84,590	469,500	10,610	590	3,000	70
1982	91,750	500,300	11,870	560	2,900	90
1983	99,690	573,400	18,930	510	2,800	80
1984	103,050	590,900	23,870	520	2,800	110
1985	111,830	672,800	26,710	630	3,500	120
1986	120,570	738,700	36,200	770	4,300	160
SMALL GAME						
1978-79	226,693	2,975,400		8,724	55,100	
1979-80	214,550	2,829,600		10,520	65,700	
1980-81	220,020	2,781,300		11,170	76,100	
BEAR						
1981	8,170	58,300	1,370	12,230	81,400	3,700
1983	10,660	90,600	1,720	15,060	101,300	4,820
1984	9,160	80,400	1,300	15,260	102,600	4,970
1985	9,300	86,700	1,440	16,850	111,700	6,370

 TOTALS

Year	Total Hunters	Hunter Days	Harvest
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MOOSE

1981	69,960	429,900	8,090
1982	88,690	527,300	10,700
1983	71,860	550,700	9,050
1984	79,150	596,600	10,340
1985	78,780	592,900	10,190
1986	80,180	613,300	11,810

DEER

1981	85,180	472,500	10,680
1982	92,310	503,200	11,960
1983	100,200	576,200	19,010
1984	103,570	593,700	23,980
1985	112,460	676,300	26,830
1986	121,340	743,000	36,360

BEAR

1981	20,400	139,700	5,070
1983	25,720	191,900	6,540
1984	24,420	183,000	6,270
1985	26,150	198,400	7,810

EXPENDITURE BY HUNTERS - (Excluding Licence Fees)

Survey Year	Estimates compiled from Hunters Surveyed by Mail			
	Hunt	Resident	Non-Resident	Total
1981-82	Moose	23,576,000	1,929,000	25,505,000
1982-83	Moose	28,900,000	1,889,000	30,789,000
1983-84	Moose	28,856,000	1,597,000	30,453,000
1984-85	Moose	32,460,000	1,727,000	34,187,000
1985-86	Moose	34,463,000	2,011,000	36,474,000
1986-87	Moose	35,294,000	2,122,000	37,416,000
1981-82	Deer	18,163,000	229,000	18,392,000
1982-83	Deer	20,306,000	240,000	20,546,000
1983-84	Deer	24,038,000	230,000	24,268,000
1984-85	Deer	26,386,000	214,000	26,600,000
1985-86	Deer	31,709,000	274,000	31,983,000
1986-87	Deer	34,257,000	339,000	34,596,000
1976-77	Small Game	53,561,000	3,252,000	56,813,000
1978-79	Small Game	47,634,000	3,278,431	50,912,431
1979-80	Small Game	47,162,000	4,413,000	51,575,000
1980-81	Small Game	50,000,000	4,563,000	54,563,000
1981-82	Bear	2,233,000	5,352,000	7,585,000
1983-84	Bear	3,724,000	8,012,000	11,736,000
1984-85	Bear	3,385,000	8,398,000	11,783,000
1985-86	Bear	3,908,000	9,677,000	13,515,000

HUNTING LICENCES SOLD

Year	DEER		MOOSE		BEAR	
	Resident	Non-Res.	Resident	Non-Res.	Resident	Non-Res.
1982-83	101,712	570	92,393	3,111	13,817	14,639
1983-84	112,318	535	75,650	2,148	15,464	16,109
1984-85	114,729	556	89,492	2,201	13,696	16,160
1985-86	125,049	670	91,319	2,701	14,198	17,739
1986-87	133,557	806	93,308	2,809	15,870	20,569

Year	SMALL GAME		TOTAL LICENCES		Total
	Resident	Non-Res.	Resident	Non-Res.	
1982-83	338,279	11,202	546,201	29,522	575,723
1983-84	321,484	10,844	524,916	29,636	554,552
1984-85	306,682	11,332	524,599	30,249	554,848
1985-86	308,478	12,434	526,640	33,542	560,182
1986-87	312,988	13,183	555,723	37,367	593,090

FURBEARER HARVESTS

in years ending June 30

Average Pelt value, 1985-86 \$		Totals from Sealing Officers' Reports and Fur Dealers' Returns			
		1983	1984	1985	1986
37.56	Beaver	141,648	119,080	133,011	141,637
35.34	Mink	21,575	16,183	16,107	20,069
41.53	Marten	58,522	64,545	30,671	56,133
49.97	Otter	10,189	7,576	9,145	8,711
194.91	Fisher	4,413	3,725	3,002	3,473
545.73	Lynx	2,888	1,707	495	478
133.79	Bobcat	47	26	15	15
3.92	Muskrat	617,459	450,634	540,943	492,762
21.76	Raccoon	126,636	72,844	87,344	75,519
.25	Red Squirrel	7,652	3,229	6,034	4,895
1.76	Weasel	3,941	3,281	3,690	4,677
30.93	Coloured Fox	21,929	19,629	18,362	20,597
16.31	Arctic Fox	106	44	116	213
50.15	Timber Wolf	1,154	884	1,003	821
27.18	Coyote	2,347	2,718	2,603	2,579
38.14	Black Bear	120	132	81	57
158.35	Wolverine	26	12	9	9
2.14	Skunk	536	264	147	81
14.70	Grey Fox	5	11	2	6
225.56	Polar Bear	4	19	23	32
9.45	Badger	7	7	1	0
1.32	Opossum	53	89	33	20
Total Pelts		1,021,257	766,639	852,837	832,784
Total Value		14,343,082	13,173,998	13,913,083	14,082,694

Total royalties collected in 1985-86 \$772,050.55

TRAPPER LICENCES, 1985-86

Registered.....	3,141 @ \$5.25 = \$16,490.25
Resident.....	7,294 @ \$5.25 = \$38,293.50
Farmer.....	796 @ \$0 = ---
Registered Treaty.....	3,229 @ \$1.00 = \$ 3,229.00
Landowner.....	210 @ \$5.25 = \$ 1,102.50
Raccoon Hunters.....	2,873 @ \$5.25 = \$15,083.25
Totals.....	17,543 \$74,198.50

HUNTER EDUCATION PROGRAM

Training, which began in 1957, became mandatory for prospective hunters in 1960. Hunting licence examinations consisting of written and practical tests were introduced in 1968. Applicants for an examination who were under 20 years of age were required to complete the prescribed training course before attempting the examination. In 1983, this training requirement was extended to all applicants born after December 31, 1954. Effective January 1, 1987, all applicants regardless of age must complete the hunter training course before applying for their hunting licence examination.

Year	ACTIVE INSTRUCTORS at Dec. 31	STUDENTS TRAINED Yearly	To Date	HUNTING ACCIDENTS		
				Non-Fatal	Fatal	Total
1980	1,320	38,730	564,608	56	6	62
1981	1,406	39,625	604,233	33	3	36
1982	1,295	34,430	638,663	38	4	42
1983	1,150	30,216	668,879	20	3	23
1984	1,175	33,117	701,996	34	4	38
1985	1,176	27,241	729,237	36	4	40
1986	1,065	25,318	754,555	29	7	36

28 PROVINCIAL WILDLIFE AREAS

	Hectares
<hr/>	
Aylmer Provincial Wildlife Area	150
Brighton Provincial Wildlife Area	388
Bruce Recreation Area	3,925
Camden Lake Wildlife Management Area	1,052
Copeland Forest	1,760
Darlington Provincial Park	111
Fingal Provincial Wildlife Area	293
Gananoque Provincial Wildlife Area	580
Holland Marsh Provincial Wildlife Area	573
Hoople Creek Provincial Wildlife Area	105
Hullett Provincial Wildlife Area	2,794
Long Point Provincial Wildlife Area	500
Luther Marsh Wildlife Area	5,666
Matchedash Bay Provincial Wildlife Area	225
Mountain Provincial Wildlife Area	1,457
Nonquon River Wildlife Area	1,133
Point Petre Provincial Wildlife Area	1,276
Presqu'ile Provincial Park	931
Puslinch Crown Resource Management Area	138
Rankin Wildlife Management Area	3,800
Rondeau Provincial Park	4,654
St. Edmunds Provincial Wildlife Area	6,799
Scugog Island	182
Sibbald Point Provincial Park	225
Stag Island Wildlife Management Area	17
Tiny Marsh Provincial Wildlife Area	931
Wye Marsh Provincial Wildlife Area	919

12 WILDLIFE EXTENSION
LANDOWNER AGREEMENT AREAS

	Hectare
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Beverly Swamp	430
Binbrook	401
Calton Swamp	96
Christie	340
Crooks Hollow	17
Hawk Cliff	34
Lake St. Lawrence	6,070
Mud Lake	61
Orangeville Reservoir	316
Valens	223
Waterford Lakes	290
Willoughby Marsh	227

COMMUNITY WILDLIFE INVOLVEMENT PROGRAM (CWIP)

Provincial Distribution of CWIP Projects for 1986/87

Southwestern Region

Alymer	8
Chatham	5
Owen Sound	5
Simcoe	7
Wingham	7
<hr/>	
TOTAL	32

Northeastern Region

Blind River	1
Espanola	2
North Bay	2
Sault Ste. Marie	0
Sudbury	9
Temagami	0
Wawa	0
<hr/>	
TOTAL	14

Central Region

Cambridge	13
Niagara	4
Lindsay	1
Maple	12
Huronia	6
<hr/>	
TOTAL	36

Northern Region

Chapleau	0
Cochrane	1
Gogama	3
Hearst	1
Kapuskasing	1
Moosonee	0
Kirkland Lake	3
Timmins	0
<hr/>	
TOTAL	9

Eastern Region

Brockville	1
Cornwall	3
Carleton Place	5
Napanee	2
Tweed	5
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TOTAL	16

North Central Region

Atikokan	0
Geraldton	2
Nipigon	0
Terrace Bay	2
Thunder Bay	5
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TOTAL	9

Algonquin Region

Bancroft	2
Bracebridge	4
Minden	2
Parry Sound	1
Pembroke	3
Algonquin Park	1
<hr/>	
TOTAL	13

Northwestern Region

Dryden	0
Fort Frances	1
Ignace	0
Kenora	3
Red Lake	0
Sioux Lookout	0
<hr/>	
TOTAL	4

PROVINCIAL TOTAL: 133 CWIP Projects in 1986/87

COMMUNITY WILDLIFE INVOLVEMENT PROGRAM (CWIP)

CWIP Participant Statistics for 1986/87

Participant Group	Number of Projects	Number of Participants	Hours Contributed by Participants
Sportsmens' Clubs	47	1,257	12,644
Naturalists' Clubs	17	528	5,645
Individuals	21	151	7,219
Landowners	2	9	130
Trapper Organizations	11	217	2,350
Youth Groups (scouts, guides, 4-H students)	17	813	4,147
Tourist Outfitters	1	3	24
Seniors	3	83	625
Church Groups	3	26	250
Community Groups	10	300	4,460
Organizations for the Disabled	1	20	400
TOTALS	133	3,425	37,894

Project WILD

1986/87 TEACHER-TRAINING WORKSHOPS BY REGION

Region	No. of Leaders MNR / School Bd.		No. of Workshops	Number of Trained Teachers
Northwestern	4	2	7	230
North Central	12	16	9	276
Northern	10	10	11	367
Northeastern	6	4	2	47
Algonquin*	8	0	3	80
Eastern	4	12	8	378
Central	13	40	30	1,001
Southwestern	13	20	31	874
TOTALS	70	104	101	3,255

*Note: all Algonquin Region workshops held by the Frost Centre

Outdoor Recreation Group

PARKS AND RECREATIONAL AREAS
BRANCH

Room 3329, Whitney Block Telephone (416) 965-5160

Branch Director.....	Norm Richards.....	W-3329...5-5160
A/Policy Co-ordinator.....	Don Hallman.....	W-3328...5-2745
A/Secretary.....	Joan Miller.....	W-3328...5-5160
Operations Manager.....	Jim Griffin.....	W-3342...5-1245
A/Operations Secretary.....	Linda Kenny.....	W-3340...5-1245
Park Mgmt. Supervisor.....	Bob McGee.....	W-3343...5-1245
Parks Technician.....	Mike Lynch.....	W-3346...5-1245
Visitor Services Supervisor.....	Gary Forma.....	W-3347...5-1245
Parks and Recreational Areas Technician.....	Paul deCoursey....	W-3345...5-1245
A/Research and Computer Applications Supervisor.....	Doug Driscoll.....	W-3344...5-1245
Park Mgmt. and Research Technician.....	Pat Walsh.....	W-3352...5-1245
Mgmt. Information Specialist.....	Doug Driscoll.....	W-3351...5-1245
Mgmt. Information Clerk.....	Doris Alexander...	W-3353...5-1245
Planning and Development Manager.....	Ken McCleary.....	W-3326...5-2745
Planning and Development Secretary....	Mildred Stedman...	W-3326...5-2745
Planning and Development Stenographer.	Rubi Coombs.....	W-3310...5-2745
Planning and Development Clerk.....	Pat Naylor.....	W-3330...5-2745
Planning and Development Typist.....	Rose Watkins.....	W-3320...5-2745
Senior Landscape Architect.....	Garrett Pittenger.	W-3330...5-2745
Landscape Architect.....	John Huang.....	W-3330...5-2745
Supervisor, Environmental and Design Services.....	Stan Cowan.....	W-3324...5-2745
Environmental and Design Services Engineer.....	Joachim Kolodziej.	W-3322...5-2745
Draftsperson.....	Maria Lehoczky...	W-3330...5-2745
Project Development Officer.....	Hugh Miles.....	W-3323...5-2745
Mechanical Designer.....	vacant.....	W-3320...5-2745
Environmental Draftsperson.....	Bozena Manowski...	W-3320...5-2745
Architectural Draftsperson.....	Brian Joyce.....	W-3320...5-2745
Supervisor Planning.....	Rick Phillips.....	W-3301...5-2745
Special Projects Officer.....	Patricia Wagner-McLellan...	W-3327...5-2745
Earth Sciences Planner.....	Bob Davidson.....	W-3301...5-2745
Life Sciences Planner.....	Tom Beechey.....	W-3301...5-2745

PUBLIC USE OF PROVINCIAL PARKS

Year	Interior Campers	Campers	Average Days	Camper Nights	Total Visitors
1982	80,550	1,267,974	2.6	3,287,603	6,250,777
1983	85,131	*1,354,019	2.7	**3,726,427	***7,647,287
1984	-	1,461,904	2.6	3,764,006	7,337,892
1985	-	1,429,440	2.6	3,718,634	+7,524,003
1986	-	1,289,588	2.8	3,658,493	7,488,170

VISITOR SERVICES PROGRAM ATTENDANCE

Organized Events/Activities

Year	Parks	Guided Tours	Personal Service Evening Programs	Film Programs	School Programs	Children's Programs	Special Events	Other
1985	69	34,773	111,472	107,947	57,366	22,042	79,553	75,205
1986	69	30,715	90,859	95,279	46,616	21,824	72,518	55,546

Indoor Facilities

Outdoor Self-Use Facilities

Indoor Displays Museums	Activity Centre	Other	Open Air Displays/ Exhibits	Inter- pretive Trails	Other Trails	Other
286,515	50,163	73,385	150,101	321,303	165,250	73,714
263,190	96,878	73,078	136,362	340,710	109,620	101,040

PUBLICATIONS

Priced	Other	Free
++91,377	84	1,406,308
13,650	520	1,270,990

TOTAL VISITOR SERVICES PROGRAM ATTENDANCE: +++1,608,789
1,534,235

GROWTH OF PROVINCIAL PARKS

Areas in hectares

Year	Camping Parks	Units	Recommended No.	Parks ha	Provincial No.	Parks ha
1982	97	20,393	97	944,337	135	4,258,632
1983	97	20,526	144	790,132	139	5,476,369
1984	97	20,481	88	759,556	136	5,476,804
1985	97	20,472	55	695,868	220	5,657,287
1986	96	20,362	51	696,072	219	5,659,105

Notes for page 46

- * Includes interior campers.
- ** Includes interior camper nights.
- *** Includes interior visitors & traffic count visitors for Wasaga Beach Provincial Park.
- + Includes winter visitors.
- ++ Includes publications produced by The Friends of Algonquin Park.
- +++ Publications not included.

219 PROVINCIAL PARKS IN REGULATION IN 1986

Region, District Provincial Park	Class	Area in Hectares	Developed Campsites	Campers	Camper Nights
NORTHWESTERN REGION					
RED LAKE					
Opasquia	WI	473,000	-	-	-
Pakwash	R	631	60	653	2,808
Woodland Caribou	WI	450,000	-	-	800
KENORA					
Rushing River	R	190	191	19,503	52,657
Sioux Narrows	R	129	71	4,609	11,062
FORT FRANCES					
Agassiz Peatland	NR	2,315	-	-	-
Caliper Lake	R	134	92	4,937	10,367
Cranberry Lake	NR	2,800	-	-	-
Lake of the Woods	NE	12,900	85	2,171	6,946
Sandpoint Island	NE	900	-	-	-
Sauble Islands	NR	1,980	-	-	-
Spruce Islands	NR	970	-	-	-
DRYDEN					
Aaron	R	117	98	3,837	4,988
Blue Lake	R	354	188	10,842	35,778
Butler Lake	NR	3,400	-	-	-
Lola Lake	NR	6,572	-	-	-
Winnange Lake	NE	4,745	-	-	-
SIOUX LOOKOUT					
Ojibway	R	2,630	50	1,113	3,783
IGNACE					
Bonheur River Kame	NR	800	-	-	-
Sandbar Lake	R	5,083	75	6,324	11,384
Total: 20 Parks		969,650	910	53,989	140,572

Region, District Provincial Park	Class	Area in Hectares	Developed Campsites	Campers	Camper Nights
NORTH CENTRAL REGION					
ATIKOKAN					
Quetico	WI	475,819	133	60,102	114,193
THUNDER BAY					
Arrow Lake	R	430	-	-	-
Arrowhead Peninsula	NR	815	-	-	-
Castle Creek	NR	1,075	-	-	-
Cavern Lake	NR	189	-	-	-
Devon Road Mesa	NR	60	-	-	-
Divide Ridge	NR	235	-	-	-
Edward Island	NR	600	-	-	-
Fraleigh lake	NR	825	-	-	-
Kakabeka Falls	NE	420	166	24,731	34,623
Kashabowie	NE	2,055	-	-	-
Le Pate	NR	250	-	-	-
Little Greenwater Lake	NR	244	-	-	-
Matawin River	NR	2,615	-	-	-
Middle Falls	NE	907	25	1,415	1,557
Ouimet Canyon	NR	777	-	-	-
Porphyry Island	NR	107	-	-	-
Sibley	NE	24,435	200	12,769	26,814
Silver Falls	NE	3,261	-	-	-
Thompson Island	NR	145	-	-	-
NIPIGON					
Albert Lake Mesa	NR	130	-	-	-
Kabitoikwia River	NR	1,965	-	-	-
Kama Hills	NR	1	-	-	-
Lake Nipigon	NE	1,458	60	2,668	4,002
Livingstone Point	NR	1,800	-	-	-
Puff Island	NR	9	-	-	-
Sedgman Lake	NR	5,710	-	-	-
Shesheeb Bay	NR	275	-	-	-
Wabakimi	WI	155,000	-	-	-
West Bay	NR	1,120	-	-	-
GERALDTON					
Klotz Lake	R	119	30	1,050	1,365
MacLeod	R	74	85	3,375	10,463
Winisk River	WA	173,530	-	-	-
TERRACE BAY					
Craig's Pit	NR	530	-	-	-
Gravel River	NR	763	-	-	-
Neys	NE	3,445	146	14,726	22,089
Prairie River Mouth	NR	380	-	-	-
Rainbow Falls	R	575	214	11,582	15,056
Red Sucker Point	NR	360	-	-	-
Schreiber Channel	NR	13	-	-	-
Slate Islands	NE	6,570	-	-	-
Total: 41 Parks		869,091	1,059	132,418	230,162

Region, District Provincial Park	Class	Area in Hectares	Developed Campsites	Campers	Camper Nights
NORTHERN REGION					
HEARST					
Fushimi Lake	R	5,294	46	2,471	8,894
Nagagamisis	NE	8,131	165	2,777	10,830
Nagagami Lake	NR	1,650	-	-	-
MOOSONEE					
Polar Bear	WI	2,408,700	-	-	-
Tidewater	NE	980	30	1,005	1,005
KAPUSKASING					
Adam Creek	NR	50	-	-	-
Rene Brunelle	R	2,964	122	3,352	9,720
COCHRANE					
Abitibi de Troyes	NE	11,068	-	-	-
Coral Rapids	NR	12	-	-	-
Greenwater	NE	5,350	135	2,866	6,593
Kesagami	WI	55,977	-	-	-
Little Abitibi	WA	20,000	-	-	-
North Driftwood River	NR	3	-	-	-
Sextant Rapids	NR	4	-	-	-
Shallow River	NR	2	-	-	-
Williams Island	NR	8	-	-	-
TIMMINS					
Frederick House Lake	NR	13	-	-	-
Kettle Lakes	R	1,261	165	6,729	22,205
KIRKLAND LAKE					
Esker Lakes	NE	3,237	136	3,808	11,805
Kap-Kig-Iwan	NE	292	64	1,996	3,393
Larder River	WA	2,500	-	-	-
Puskin Hills	NR	5	-	-	-
Thackery	NR	116	-	-	-
CHAPLEAU					
Chapleau-Nemegosenda River	WA	8,165	-	-	-
Five Mile Lake	R	456	-	-	-
Ivanhoe Lake	NE	1,589	149	4,773	12,411
Missinaibi Lake	NE	44,061	36	2,959	11,837
The Shoals	NE	10,644	46	1,775	3,905
Wakami Lake	R	8,806	65	3,993	17,172
Total: 29 Parks		2,601,338	1,159	38,504	119,770

Region, District Provincial Park	Class	Area in Hectares	Developed Campsites	Campers	Camper Nights
NORTHEASTERN REGION					
WAWA					
Lake Superior	NE	155,659	282	18,614	35,367
Michipicoten	H	289	-	-	-
Michipicoten Island	NE	36,740	-	-	-
Obatanga	NE	9,409	132	7,405	11,848
Potholes	NR	247	-	-	-
White Lake	NE	1,726	187	9,709	25,244
SAULT STE. MARIE					
Batchawana	R	169	-	-	-
Montreal River	NR	44	-	-	-
Pancake Bay	R	490	338	24,168	43,502
BLIND RIVER					
Aubrey Falls	NE	4,860	-	-	-
Mississagi	NE	2,883	90	2,276	7,512
Mississagi Delta	NR	2,395	-	-	-
Mississagi River	WA	19,814	-	-	-
ESPANOLA					
Chutes	R	108	134	14,396	20,155
La Cloche	NE	7,448	-	-	-
SUDBURY					
Fairbank	R	105	160	5,885	15,300
Halfway Lake	NE	4,730	215	12,694	45,700
Killarney	WI	48,500	122	10,666	42,665
Mashkinonje	R	940	-	-	-
Wanapitei	NE	2,700	-	-	-
Windy Lake	R	118	83	5,080	14,224
TEMAGAMI					
Finlayson Point	R	37	114	3,630	13,069
Lady Evelyn					
Smoothwater	WI	72,400	-	-	-
Makobe-Grays River	WA	1,427	-	-	-
W. J. B. Greenwood	R	465	-	-	-
NORTH BAY					
Antoine	R	12	30	5	17
Marten River	R	400	216	5,670	12,475
Mattawa River	WA	3,258	-	-	-
Restoule	NE	1,200	278	5,850	24,570
Samuel de Champlain	NE	2,550	216	8,344	19,191
South Bay	R	1,525	-	-	-
Total: 32 Parks		382,648	2,597	134,392	330,839

Region, District Provincial Park	Class	Area in Hectares	Developed Campsites	Campers	Camper Nights
ALGONQUIN REGION					
PARRY SOUND					
Grundy Lake	NE	2,554	520	15,464	51,031
Killbear	NE	1,756	883	40,141	188,665
Limestone Islands	NR	450	-	-	-
Oastler Lake	R	32	145	8,773	27,195
O'Donnell Point	NR	875	-	-	-
Sturgeon Bay	R	14	82	3,443	13,429
BRACEBRIDGE					
Arrowhead	NE	963	389	21,349	64,048
Bigwind Lake	NE	1,970	-	-	-
Dividing Lake	NR	350	-	-	-
Hardy Lake	NE	684	-	-	-
J. Albert Bauer	NE	163	-	-	-
Mikisew	R	131	265	12,068	27,757
Oxtongue R.-Ragged Falls	WA	382	-	-	-
BANCROFT					
Lake St. Peter	R	25	62	4,146	8,293
Opeongo River	WA	955	-	-	-
Petroglyphs	H	1,555	-	-	-
Silent Lake	NE	1,450	167	9,922	25,796
ALGONQUIN PARK					
Algonquin	NE	765,345	1,385	108,875	391,950
PEMBROKE					
Bonnechere	R	113	113	5,345	17,638
Carson Lake	R	13	43	2,053	3,900
Driftwood	R	265	79	3,051	7,933
Foy Property	R	148	-	-	-
Matawatchan	NR	65	-	-	-
Westmeath	Ne	610	-	-	-
Total: 24 Parks		780,868	4,133	234,630	827,635

Region, District Provincial Park	Class	Area in Hectares	Developed Campsites	Campers	Camper Nights
EASTERN REGION					
CARLETON PLACE					
Carillon	R	1,417	416	16,078	35,371
Fitzroy	R	185	245	14,143	29,700
Murphys Point	NE	1,240	182	8,642	20,742
Rideau River	R	98	186	11,426	28,565
Silver Lake	R	43	148	7,943	20,653
Sharbot Lake	R	69	195	9,806	27,458
NAPANEE					
Bon Echo	NE	6,644	530	35,405	106,214
Charleston Lake	NE	902	250	17,684	56,590
Ferris	NE	198	162	2,719	5,981
Frontenac	NE	5,130	42	-	3,748
Lake on the Mountain	R	104	-	-	-
North Beach	R	89	-	-	-
Presqu'ile	NE	937	393	35,681	99,908
Sandbanks	NE	1,509	411	37,318	119,419
Stoco Fen	NR	102	-	-	-
Timber Island	NR	44	-	-	-
Total: 16 Parks		18,711	3,160	196,845	554,349

Region, District Provincial Park	Class	Area in Hectares	Developed Campsites	Campers	Camper Nights
CENTRAL REGION					
LINDSAY					
Balsam Lake	R	449	489	34,062	88,560
Darlington	R	209	350	29,664	68,228
Emily	R	83	299	20,811	58,270
Mark S. Burnham	R	39	-	-	-
Peter's Woods	NR	34	-	-	-
Quackenbush	H	40	-	-	-
Serpent Mounds	NE	135	113	9,321	27,030
Wolf Island	NE	222	-	-	-
HURONIA					
Awenda	NE	2,917	200	15,302	39,784
Bass Lake	R	39	92	12,688	29,182
Boyne Valley	R	434	-	-	-
Devil's Glen	R	6	45	2,793	4,189
Earl Rowe	R	312	555	24,903	62,258
Gibson River	NR	168	-	-	-
Mara	R	45	110	6,246	19,364
McRae Point	R	138	205	12,435	37,304
Mono Cliffs	NE	631	-	-	-
Six Mile Lake	R	94	190	17,019	42,548
Springwater	R	47	-	-	-
Wasaga Beach	R	1,545	-	-	-
Waubashene Beaches	NR	34	-	-	-
MAPLE					
Duclos Point	NR	111	-	-	-
Forks of the Credit	NE	261	-	-	-
Sibbald Point	R	226	650	43,126	129,378
CAMBRIDGE					
Bronte Creek	R	640	-	-	-
NIAGARA					
Rock Point	R	187	128	8,957	25,080
Short Hills		661	-	-	-
Total: 27 Parks		9,707	3,426	237,327	631,175

Region, District Provincial Park	Class	Area in Hectares	Developed Campsites	Campers	Camper Nights
SOUTHWESTERN REGION					
SIMCOE					
Long Point	R	141	268	15,517	65,172
Selkirk	R	73	145	4,033	10,888
Turkey Point	R	311	365	10,986	24,170
AYLMER					
John E. Pearce	NE	68	-	-	-
Port Bruce	R	5	-	-	-
Port Burwell	R	227	232	16,720	50,161
Trillium Woods	NR	10	-	-	-
CHATHAM					
East Sister Island	NR	53	-	-	-
Fish Point	NR	110	-	-	-
Lighthouse Point	NR	96	-	-	-
Ojibway Prairie	NR	65	-	-	-
Peche Island	R	153	-	-	-
Rondeau	NE	3,254	226	20,564	63,747
Wheatley	R	241	210	16,199	37,257
WINGHAM					
Ipserwash	R	56	266	18,299	69,535
Pinery	NE	2,533	1,080	76,829	276,586
Point Farms	R	308	200	15,263	39,683
OWEN SOUND					
Bayview Escarpment	NR	439	-	-	-
Cabot Head	NR	4,514	-	-	-
Craigleith	R	66	172	17,015	39,135
Cyprus Lake	NE	669	242	21,038	58,906
Duncan Crevice Caves	NR	161	-	-	-
Fathom Five	NE	9,976	-	-	-
Hope Bay Forest	NR	353	-	-	-
Inverhuron	R	289	-	-	-
Lion's Head	NR	526	-	-	-
Little Cove	NR	16	-	-	-
MacGregor Point	R	1,204	360	16,907	52,413
Pretty River Valley	NE	808	-	-	-
Sauble Falls	R	20	152	12,113	36,338
Smokey Head/ White Bluff	NR	16	-	-	-
Total: 31 Parks		27,092	3,918	261,483	823,991

CLASSIFICATION

R - Recreation NE - Natural Environment NR - Nature Reserve
 H - Historical WA - Waterway WI - Wilderness

	Area in hectares	Developed Campsites	Campers	Camper Nights
Total: 219 Parks	5,659,105	20,362	1,289,588	3,658,493

** 51 RECOMMENDED PROVINCIAL PARKS - 1986

Region, District Recommended Provincial Parks	Area in Hectares
NORTHWESTERN REGION	
RED LAKE	
Pakwash Addition	2,070
Trout Lake	7,850
SIOUX LOOKOUT	
Albany River*	65,360
Fawn River	4,700
Minnitaki Kames	4,340
Otoskwin - Attawapiskat River*	3,400
Pipestone River North	53,250
Pipestone River South	25,720
Severn River	93,700
Windigo Point	380
IGNACE	
Brightsands River*	22,800
Turtle River*	21,400
DRYDEN	
Gold Rock	710
Total: 13 Parks	305,680

Region, District	Area in Hectares
Recommended Provincial Parks	

NORTH CENTRAL REGION

NIPIGON

Pantagrueel Creek	2,200
Windigo Bay	8,300

THUNDER BAY

Brightsands River*	5,036
Kaiashk	230
Kopka River	11,000
La Verendrye River	4,390

TERRACE BAY

Steel River	9,570
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GERALDTON

Albany River*	62,723
Little Current River	9,830
Otoskwin-Attawapiskat River*	69,542
Turtle River*	20,000

Total: 11 Parks

202,821

Region, District Recommended Provincial Parks	Area in Hectares
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NORTHERN REGION

CHAPLEAU	
Biscotasing	1,150
Missinaibi	86,450

TIMMINS	
Dana - Jowsey	2,550

GOGAMA	
La Motte Lake	510

Total: 4 Parks	90,660
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NORTHEASTERN REGION

BLIND RIVER	
Mississagi Extension	1,840

SUDBURY	
French River	43,800
Sturgeon River	2,240

NORTH BAY	
Great Manitou Island	80

ESPANOLA	
Misery Bay	697

Total: 5 Parks	48,657
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Region, District Recommended Provincial Parks	Area in Hectares
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ALGONQUIN REGION

PARRY SOUND

Blackstone Harbour	12,250
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Round Lake	4,620
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BRACEBRIDGE

Chetwynd	520
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BANCROFT

Egan Chutes	320
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Kawartha Highlands	1,880
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Upper Madawaska River	750
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PEMBROKE

Bell Bay	1,630
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Bonnechere River	570
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Centennial Lake	3,830
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Lower Madawaska River	1,770
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MacKenzie Lake Addition	1,530
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Ottawa River	450
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MINDEN

MacRae Addition	6,354
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Total: 13 Parks	36,474
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Region, District Recommended Provincial Parks	Area in Hectares
EASTERN REGION	
BROCKVILLE	
James Auld	3,810
Total: 1 Park	3,810
CENTRAL REGION	
LINDSAY	
Indian Point	860
HURONIA	
Lavender Falls	390
Scott's Falls	410
NIAGARA	
James N. Allan	280
Total: 4 Parks	1,940
SOUTHWESTERN REGION	
AYLMER	
Komoka	500
OWEN SOUND	
Black Creek	770
Ira Lake	460
Johnston Harbour/Pine Tree Point	4,300
Total: 4 Parks	6,030
TOTAL: 51 Recommended Provincial Parks	696,072

* Park boundary crosses two regions

** Recommended parks will be phased into the Provincial Parks system in the future.

Outdoor Recreation Group

FISHERIES BRANCH

Room 2347, Whitney Block Telephone (416) 965-7885

Branch Director.....	George Whitney.....	W-2347...5-7885
Secretary.....	vacant.....	W-2348...5-7885
Policy Development Co-ordinator..	John Allin.....	W-2350...5-7885
Projects Implementation Co-ord...	James Hamilton.....	W-2447...5-7886
Client Services Section		
Manager.....	Colin Haxell.....	W-2349...5-7885
Secretary.....	Frances Heffernan.....	W-2348...5-7885
Information Co-ordinator.....	Allan Wainio.....	W-2353...5-7885
Data Systems Management		
Biologist.....	William Simpson.....	W-2446...5-7885
Economist.....	Nilam Bedi.....	W-2344...5-7885
Commercial Development Co-ord..	John Tilt.....	W-2455...5-7885
Regulations Clerk.....	Karen Jones.....	W-2456...5-7885
Fish Culture Section		
A/Supervisor.....	Alan Sippel.....	W-2448...5-7886
Secretary.....	Lorraine LaVallee.....	W-2448...5-7886
Production Biologist.....	Julian Hynes.....	W-2449...5-7886
A/Fish Health Biologist.....	Jack Frimeth.....	W-2453...5-7886
Fish Nutrition Specialist.....	Young Cho.....	(519) 824-4120
Fish Assessment Biologist.....	vacant.....	W-2450...5-7886
Fish Culture Operations		
Co-ordinator.....	Cameron Mack.....	Maple..832-2761
Fish Culture Operations		
Specialist.....	Scott Watson.....	Maple..832-2761
Engineer.....	Howie Yoshida.....	W-2452...5-7886
Fish Community & Habitat Section		
Supervisor.....	Douglas Dodge.....	W-2312...5-7887
Secretary.....	Bluebell Fernandez.....	W-2312...5-7887
Habitat Enhancement Biologist..	Raymond Biette.....	W-2312...5-7887
Aquatic Habitat Inventory		
Biologist.....	Gareth Goodchild.....	W-2312...5-7887
Inventory Data Systems &		
Lab Specialist.....	George Gale.....	W-2312...5-7887
Aquatic Habitat Acidification		
Specialist.....	Gail Beggs.....	W-2312...5-7887

Fisheries Research Section

Box 50, Maple, Ontario L0J 1E0 Telephone (416) 832-2761

Supervisor.....	James MacLean.....	832-7113
Secretary.....	Mary Hirst.....	832-7112
Age/Growth Studies &		
Environmental Stress.....	John Casselman.....	832-7130
Brook Trout Studies.....	Jim Fraser.....	832-7142
Community Dynamics.....	David Evans.....	832-7109
Stock Assessment &		
Research Services.....	Peter Ihssen.....	832-7164
Systems Ecology.....	Brain Shuter.....	832-7139
Population Ecology.....	Brian Henderson.....	832-7119
Salmonid Ecology.....	Tony Kwain.....	832-7135
Inland Lakes Co-ordinator.....	Leon Carl.....	832-7104
Population Ecology.....	Jim Reckhan.....	832-7107
Great Lakes Co-ordinator.....	Jack Christie.....	(613) 476-7877

RESEARCH STATIONS

Fisheries Research Section.....	Richard Ryder.....	(807) 683-6231
Box 5000, Thunder Bay, Ont	Peter Colby.....	475-1635
P7C 5G6		
South Baymouth Fisheries Lab.....	John Collins.....	(705) 859-3137
R.R. 1, Tehkummah, Ont. POP 2C0		
Wheatley Fisheries Research Stn..	Steve Nepszy.....	(519) 825-4171
R.R. 2, Wheatley, Ont. NOP 2P0	Joe Leach.....	4171
Glenora Fisheries Research Stn....	Don Hurley.....	(613) 476-2400
R.R. 4, Picton, Ont. KOK 2T0		
Harkness Lab (Algonquin Park)....	.....	(705) 637-2103
Box 110, Whitney, Ont. K0J 2M0		

FISH PLANTINGS

Numbers in 000s of Fish (F) and Eggs (E)

Stocked from Ontario Fish Culture Stations (calendar year)

Species	E/F	1982	1983	1984	1985	1986
Coho Salmon	F	144	181	216	190	273
Chinook Salmon	F	270	222	685	703	598
Rainbow Trout	F	369	318	266	339	500
Brown Trout	F	71	134	165	166	305
Brook Trout	E	-	302	-	-	-
	F	824	1,757	1,127	1,138	1,688
Lake Trout	E	-	25	80	38	15
	F	2,517	1,874	2,959	3,240	3,381
Lake Trout Backcross	F	-	856	1,071	907	908
Splake	E	-	180	-	-	-
	F	927	104	205	351	349
Aurora Trout	F	-	21	10	11	21
Whitefish	F	13	15	15	32	68
Muskellunge	E	-	-	-	-	-
	F	1,146	902	1,290	1,470	1,161
Smallmouth Bass	F	-	-	136	4	24
Walleye	E	-	-	300	800	-
	F	31	156	354	2,296	2,276
Total		6,312	7,047	8,879	11,761	11,568

FISH STOCKING from Ontario Provincial Fish Culture Stations

For the fiscal year ending March 31, 1986

(E-Eggs)

Station	Species	Quantity (1000's)	Weight (kg)
Cage Culture Project	Lake Trout Backcross	44	1,920
Codrington	Brown Trout	166	4,390
Chatsworth	Lake Trout	116	2,170
	Lake Trout Backcross	677	26,150
	Splake	1	1,120
	Whitefish	32	490
Deer Lake	Lake Trout	142	1,830
	Muskellunge	1,526	240
		76 E	
Dorion	Brook Trout	311	1,730
	Lake Trout	958	20,530
	Splake	43	270
Hill's Lake	Brook Trout	521	3,470
	Lake Trout	391	9,960
	Splake	46	580
Normandale	Rainbow Trout	221	3,570
North Bay	Brook Trout	1	90
	Lake Trout	46	560
		15 E	-
	Splake	151	1,870
	Aurora Trout	11	5
Pembroke	Brook Trout	56	610
	Lake Trout	146	3,050
Ringwood	Coho Salmon	183	4,110
	Chinook Salmon	584	3,070
Sandfield	Lake Trout	57	740
		38 E	-
	Lake Trout Backcross	296	6,240
	Smallmouth Bass	5	11
	Walleye	5	7
Skeleton Lake	Brook Trout	195	1,050
	Lake Trout	139	1,970
	Walleye	928	120
Tarentorus	Rainbow Trout	68	3,490
	Brook Trout	126	1,370
	Lake Trout	557	11,090
White Lake	Rainbow Trout	52	2,180
	Brook Trout	40	450
	Lake Trout	692	8,690
	Splake	45	280
	Walleye	405	220
		800 E	-
Total		10,912	

PLEASE NOTE: Statistics for the 1985 and 1986 Commercial Fish Harvest will be available in January, 1988. For more information, please contact Fisheries Branch, at (416) 965-7885.

EMPLOYMENT AND INVESTMENT IN COMMERCIAL FISHERY - 1984

Classification		Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron
Men employed	No.	285	714	22	74
FISHING BOATS					
12.2 m and over	No.	3	158	-	15
	tonnes	40	4,721	-	238
	Value \$	85,000	23,866,011	-	1,478,944
6.1 m to 11.9 m	No.	77	28	8	2
	Value \$	972,800	708,165	72,000	75,000
Under 6.1 m	No.	189	56	11	5
	Value \$	371,620	89,795	20,050	5,194
FISHING GEAR					
Gill Nets	Metres	1,104,800	9,987,193	-	432,200
	Value \$	775,587	7,168,985	-	514,767
Pound Nets	No.	-	43	180	-
	Value \$	-	80,300	156,000	-
Trap Nets	No.	112	284	140	118
	Value \$	84,600	1,216,000	31,500	230,941
Hoop Nets	No.	1,019	167	30	3
	Value \$	585,350	73,200	15,000	3,000
Seine Nets	Metres	2,396	4,033	4,379	-
	Value \$	19,600	55,000	17,300	-
Night Lines	No.	43,564	20,820	7,400	-
	Value \$	32,151	11,800	6,200	-
Dip Nets	No.	10	13	-	-
	Value \$	282	470	-	-
Trawl Nets	No.	-	336	-	-
	Value \$	-	776,085	-	-
Trammel Nets	Metres	-	20	-	-
	Value \$	-	13,800	-	-
SHORE INSTALLATIONS					
Freezers & Icehouses	No.	33	30	7	10
	Value \$	183,075	1,117,700	49,400	133,500
Piers & Wharves	No.	32	42	8	5
	Value \$	178,510	123,544	31,200	25,700
Net Sheds	No.	93	125	13	10
	Value \$	414,054	2,281,750	181,000	291,200
Miscellaneous	Value \$	637,850	56,500	-	-

NEW CAPITAL INVESTMENT

Engines	Value \$	78,315	207,912	2,300	32,200
Hulls	Value \$	85,420	1,098,524	-	81,145
Fishing Gear	Value \$	163,016	1,293,363	2,580	47,641
Wheelhouse Equip	Value \$	10,850	186,419	-	22,889
Other Equipment	Value \$	6,170	-	-	-

TOTAL NEW CAPITAL
INVESTMENT

343,771	2,786,218	4,880	183,875
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TOTAL INVESTMENT

4,110,185	40,374,473	584,530	2,942,121
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EMPLOYMENT AND INVESTMENT IN COMMERCIAL FISHERY - 1983

Classification	Georgian Bay	North Channel	Lake Superior	Northern Inland Waters	Southern Inland Waters	Total
Men Employed	38	32	21	382	20	1,588
FISHING BOATS						
12.2 m & over No.	9	6	9	8	-	208
tonnes	127	60	103	55	-	5,344
Value\$	477,684	290,000	500,000	321,000	-	27,018,639
6.1m to 11.9m No.	14	4	4	43	3	183
Value\$	157,700	13,500	33,100	315,166	12,000	2,359,431
Under 6.1m No.	22	10	11	209	12	525
Value\$	56,900	9,450	28,808	366,326	17,100	965,243
FISHING GEAR						
Gill Nets						
Meters	316,530	195,000	117,000	509,810	13,000	12,675,533
Value\$	294,600	85,930	92,900	332,922	10,850	9,276,541
Pound Nets						
No.	3	-	2	24	-	252
Value\$	4,500	-	6,000	192	-	246,992
Trap Nets						
No.	4	4	1	79	4	746
Value\$	5,000	2,000	2,000	103,510	4,600	1,680,151
Hoop Nets						
No.	1	7	1	53	128	1,409
Value\$	800	1,000	1,500	15,900	35,950	731,700
Seine Nets						
Metres	-	-	-	-	201	11,009
Value\$	-	-	-	-	1,100	93,000
Night Lines						
No.	-	-	-	-	1,600	73,384
Value\$	-	-	-	-	505	50,656
Dip Nets						
No.	-	-	4	22	-	49
Value\$	-	-	80	1,045	-	1,877
Trawl Nets						
No.	-	-	5	-	-	341
Value\$	-	-	10,000	-	-	786,085
Trammel Nets						
Metres	-	-	-	-	67	87
Value\$	-	-	-	-	600	14,400

		Georgian Bay	North Channel	Lake Superior	Northern Inland Waters	Southern Inland Waters	Total
SHORE INSTALLATIONS							
Freezers & No.		15	8	5	109	13	230
Icehouses	Value \$	67,000	74,500	33,500	561,719	3,563	2,223,957
Piers & No.		7	4	9	80	4	191
Wharves	Value \$	42,400	4,883	21,300	169,570	2,300	599,407
Net Sheds	No.	10	10	8	69	10	348
	Value \$	87,600	56,576	24,000	149,989	18,060	3,504,229
Misc.	Value \$	-	-	-	80,000	-	149,435
NEW CAPITAL INVESTMENT							
Engines	Value \$	2,826	400	6,658	58,893	3,850	393,354
Hulls	Value \$	-	-	6,650	26,945	-	1,298,684
Fishing							
Gear	Value \$	26,983	32,323	18,231	82,302	3,373	1,669,812
Wheelhouse							
Equip.	Value \$	10,136	4,881	6,500	12,913	-	254,588
Other							
Equipment	Value \$	-	-	650	-	-	6,820
TOTAL NEW CAPITAL INVESTMENTS		39,945	37,604	38,689	181,053	7,223	1,231,371
TOTAL INVESTMENT							
Georgian Bay		1,234,129					
North Channel		575,443					
Lake Superior		791,877					
Northern Inland Waters		2,598,392					
Southern Inland Waters		113,851					
TOTAL		53,325,001					

COMMERCIAL FISH INDUSTRY

Commercial Fish Harvest - January to December 1984

shown in kilograms and dollar value

Species	Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron	Georgian Bay
Bowfin	55	11,008	6,243	-	-
Bullhead	187,817	22,173	521	15	162
Burbot (ling)	-	494	-	11,967	3,592
Carp	36,924	40,861	27,925	12,446	1,218
Catfish	9,151	27,623	27,006	28,286	671
Chub (Deepwater Cisco)	-	-	-	454,456	179,055
Crappie	13,457	9,375	128	-	-
Eel	112,534	540	7	-	-
Lake Herring	1,987	-	-	1,861	11,449
Lake Trout	861	327	-	26,213	4
Lake Whitefish	32,984	5,372	-	895,579	59,171
Freshwater Drum	826	231,899	2,409	25,383	302
Northern Pike	1,228	6,487	1,221	154	1,437
Pacific Salmon	-	-	-	2,193	28
Rock Bass	8,208	12,051	1,102	1,739	453
Round Whitefish	-	4	-	5,511	8,387
Sauger	-	-	-	5	96
Shad	-	4,253	-	805	-
Smelt	15,028	7,468,616	-	301	788
Splake	-	-	-	-	8,095
Sturgeon	63	35	32	1,295	-
Sucker	30,785	7,842	6,125	24,921	12,188
Sunfish	60,330	30,823	6	2	-
White Bass	8,218	1,990,293	2,898	7,991	-
White Perch	30,152	320,303	198	154	-
Yellow Perch	381,009	4,092,461	2,123	211,563	31,971
Yellow Pickerel	556	1,864,574	69	128,669	4,909
Animal Food	28,926	296,608	-	58,662	465
Total Landings (kg)	961,099	16,444,022	78,013	1,900,171	324,441
Total Value (\$)	1,698,354	25,805,072	53,627	3,932,321	493,143

COMMERCIAL FISH INDUSTRY

Commercial Fish Harvest - January to December 1984

shown in kilograms and dollar value

Species	North Channel	Lake Superior	Northern Inland Waters	Southern Inland Waters	Total Landings (kg)	Total Value (\$)
Bowfin	-	-	-	-	17,306	6,566
Bullhead	-	-	53	3,757	214,498	197,171
Burbot (ling)	1,064	-	21,407	431	38,955	3,931
Carp	593	-	-	11,538	131,505	30,015
Catfish	140	-	18	3,606	96,501	98,555
Chub (Deepwater Cisco)	16	63,429	48,412	-	745,368	1,380,800
Crappie	4	-	7,163	1,141	31,268	80,751
Eel	-	-	-	800	113,881	225,724
Lake Herring	2,459	896,716	11	-	914,483	445,492
Lake Trout	437	145,577	19,159	-	192,578	386,307
Lake Whitefish	174,432	179,148	546,446	-	1,893,132	2,885,921
Freshwater Drum	-	-	-	-	260,819	50,440
Northern Pike	7,986	-	92,910	-	111,423	86,472
Pacific Salmon	315	-	-	-	2,536	4,998
Rock Bass	499	-	3	835	24,890	26,612
Round Whitefish	1,978	18,405	22	-	34,307	18,498
Sauger	-	-	14,799	-	14,900	27,075
Shad	-	-	-	-	5,058	318
Smelt	220	-	-	-	7,484,953	1,599,925
Splake	1,139	-	-	-	9,234	18,433
Sturgeon	-	-	6,515	-	7,940	37,316
Sucker	18,231	70,607	101,419	459	272,577	52,194
Sunfish	131	-	-	13,420	104,712	109,687
White Bass	-	-	-	93	2,009,493	1,878,271
White Perch	-	-	-	-	350,807	338,374
Yellow Perch	54,220	37,694	644	2,501	4,814,186	18,306,748
Yellow Pickerel	10,574	621	270,364	-	2,280,336	6,796,911
Animal Food	59,063	23,037	16,881	5,591	489,233	12,100

TOTAL LANDINGS (kg)

TOTAL VALUE (\$)

North Channel	333,501	609,151.00
Lake Superior	1,435,234	1,124,474.78
Northern Inland Waters	1,146,226	1,336,872.84
Southern Inland Waters	44,172	52,591.26
Total Landings	22,666,879	-
Total Value	-	35,105,606.46

ONTARIO COMMERCIAL FISH HARVEST

by species in 000s kg and \$000s

Species	1980	1981	1982	1983	1984	1984 Value
Bowfin	9	20	13	45	18	7
Bullhead	241	234	204	221	215	197
Burbot (ling)	108	182	81	72	39	4
Carp	121	208	158	181	132	30
Catfish	85	117	96	111	97	99
Chub (Deepwater Cisco)	446	394	308	520	746	1,381
Pacific Salmon	17	38	27	69	3	5
Eel	168	112	32	69	114	226
Freshwater Drum	179	257	230	188	261	51
Goldeye	-	-	-	-	-	-
Lake Herring (Cisco)	1,464	1,456	1,122	589	915	446
Lake Trout	278	227	258	262	193	387
Lake Whitefish	1,681	1,748	1,765	2,226	1,894	2,886
Northern Pike	267	296	321	278	112	87
Rock Bass & Crappie	75	64	58	78	57	108
Round Whitefish	75	57	35	27	35	19
Sauger	17	20	28	20	15	28
Smelt	11,336	13,944	19,611	13,316	7,585	1,600
Splake	39	57	40	29	9	19
Sturgeon	21	20	20	22	8	38
Sucker (Mullet)	563	606	626	484	273	52
Sunfish	118	126	130	111	105	110
White Bass	904	896	1,579	2,076	2,010	1,878
White Perch	57	47	39	74	351	339
Yellow Perch	6,236	4,784	4,962	3,473	4,814	18,307
Yellow Pickerel	1,343	1,476	1,368	1,841	2,281	6,797
Animal Food	637	772	688	828	490	12
Total Landings	26,485	28,158	33,799	27,210	22,672	-
Total Landed Value	\$23,644	\$31,767	\$36,788	\$27,837	-	\$35,113

ONTARIO COMMERCIAL FISH HARVEST

by waters in 000s kg. and \$000s

Year	Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron	Georgian Bay
1980	891	19,490	37	1,083	361
1981	1,163	20,334	93	1,461	346
1982	939	26,989	153	1,324	269
1983	1,025	20,363	122	2,126	270
1984	961	16,444	78	1,900	325

Year	North Channel	Lake Superior	Northern Inland Waters	Southern Inland Waters	Total	Total \$
1980	158	2,151	2,080	234	26,485	23,644
1981	314	2,060	2,154	233	28,158	31,767
1982	322	1,515	2,091	197	33,799	36,788
1983	381	1,079	1,691	153	27,210	27,837
1984	334	1,435	1,146	44	22,667	35,106

LAKE ONTARIO COMMERCIAL FISH HARVEST

by species in 000s kg. and \$000s

Year	Bullhead and Catfish	Carp	Eel	Lake Herring	Smelt	Sunfish
1980	176	-	164	5	22	72
1981	154	73	109	2	34	60
1982	120	13	29	2	37	69
1983	141	43	67	3	44	58
1984	197	37	113	2	15	61

Year	White Perch	Yellow Perch	Other Species	Total	Total \$
1980	55	265	132	891	1,147
1981	48	563	120	1,163	1,930
1982	34	539	96	939	1,905
1983	29	580	60	1,025	1,880
1984	30	381	125	961	1,698

LAKE ERIE COMMERCIAL FISH HARVEST

by species in 000s kg. and \$000s

Year	Bullhead and Catfish	Carp	Freshwater Drum	Smelt	White Bass
1980	56	10	151	11,296	888
1981	76	15	212	13,790	881
1982	54	19	190	19,556	1,556
1983	70	89	145	13,270	2,060
1984	50	41	232	7,469	1,991

Year	Yellow Perch	Yellow Pickerel	Other Species	Total	Total \$
1980	5,674	800	615	19,490	14,024
1981	3,795	956	609	20,334	20,261
1982	4,134	909	571	26,989	26,183
1983	2,539	1,400	790	20,363	17,748
1984	4,093	1,865	703	16,444	25,805

LAKE ST. CLAIR COMMERCIAL FISH HARVEST

by species in 000s kg. and \$000s

Year	Bullhead and Catfish	Carp	Freshwater Drum	Northern Pike	Rock Bass & Crappie
1980	7	14	5	1	1
1981	22	34	11	1	1
1982	30	74	17	1	2
1983	26	19	16	2	3
1984	28	28	3	2	2

Year	Sucker	White Bass	Yellow Perch	Other Species	Total	Total \$
1980	5	2	-	2	37	23
1981	11	5	1	7	93	53
1982	15	8	1	5	153	77
1983	26	6	5	9	122	76
1984	6	3	2	4	78	78

LAKE HURON COMMERCIAL FISH HARVEST

by species in 000s kg. and \$000s

Year	Carp	Chub	Lake Herring	Lake Whitefish	Round Whitefish
1980	15	101	3	524	6
1981	14	219	3	594	4
1982	13	194	4	702	4
1983	12	252	11	1,300	4
1984	13	455	2	896	6

Year	Sucker (Mullet)	Yellow Perch	Yellow Pickerel	Other Species	Total	Total \$
1980	18	201	124	91	1,083	2,369
1981	49	246	124	208	1,461	3,255
1982	63	135	117	92	1,324	2,833
1983	30	227	129	161	2,126	4,231
1984	25	212	129	162	1,900	3,933

GEORGIAN BAY COMMERCIAL FISH HARVEST

by species 000s kg. and \$000s

Year	Carp	Chub	Lake Herring	Lake Whitefish	Round Whitefish
1980	7	77	20	88	15
1981	2	57	12	105	8
1982	2	57	12	77	9
1983	1	124	10	37	6
1984	2	179	12	60	9

Year	Sucker (Mullet)	Yellow Perch	Yellow Pickerel	Other Species	Total	Total \$
1980	41	36	11	66	361	505
1981	28	49	11	74	346	669
1982	20	39	9	44	269	504
1983	22	29	7	34	270	478
1984	12	32	5	14	325	493

NORTH CHANNEL COMMERCIAL FISH HARVEST

by species in 000s kg. and \$000s

Year	Smelt	Lake Whitefish	Northern Pike	Round Whitefish	Sturgeon
1980	-	73	6	1	4
1981	-	120	13	2	3
1982	-	171	9	1	2
1983	-	200	7	3	2
1984	-	175	8	2	-

Year	Sucker (Mullet)	Yellow Perch	Yellow Pickerel	Other Species	Total	Total \$
1980	34	7	13	20	158	279
1981	26	52	20	78	314	526
1982	27	39	20	53	322	618
1983	17	38	10	104	381	554
1984	19	55	11	64	334	609

LAKE SUPERIOR COMMERCIAL FISH HARVEST

by species in 000s kg. and \$000s

Year	Chub	Lake Herring	Lake Trout	Lake Whitefish	Smelt
1980	240	1,282	212	225	17
1981	91	1,327	176	173	42
1982	18	901	189	164	17
1983	31	563	185	133	-
1984	64	897	146	179	-

Year	Sucker (Mullet)	Yellow Perch	Yellow Pickerel	Other Species	Total	Total \$
1980	77	38	-	60	2,151	2,606
1981	110	61	-	80	2,060	2,246
1982	124	61	1	40	1,515	2,063
1983	105	40	-	22	1,079	1,297
1984	71	38	-	40	1,436	1,124

NORTHERN INLAND WATERS COMMERCIAL FISH HARVEST

by species in 000s kg. and \$000s

Year	Burbot	Chub	Lake Herring	Lake Trout	Lake Whitefish
1980	91	27	154	32	765
1981	169	26	106	18	745
1982	70	40	200	48	629
1983	58	112	-	18	539
1984	39	48	-	19	547

Year	Northern Pike	Sucker (Mullet)	Yellow Pickerel	Other Species	Total	Total \$
1980	226	337	337	111	2,080	2,533
1981	246	358	363	123	2,154	2,641
1982	275	341	311	177	2,091	2,426
1983	248	259	292	165	1,691	1,421
1984	93	102	271	46	1,147	1,337

SOUTHERN INLAND WATERS COMMERCIAL FISH HARVEST

by species in 000s kg. and \$000s

Year	Bullhead & Catfish	Carp	Lake Whitefish	Rock Bass & Crappie	Sucker (Mullet)
1980	57	71	-	4	15
1981	63	69	-	8	4
1982	63	34	-	11	19
1983	54	16	-	8	1
1984	8	12	-	3	1

Year	Sunfish	White Perch	Yellow Perch	Other Species	Total	Total \$
1980	29	2	11	45	234	157
1981	34	3	15	37	233	186
1982	34	1	10	25	197	181
1983	26	5	12	31	153	152
1984	14	-	3	3	44	53

EMPLOYMENT AND INVESTMENT IN ONTARIO COMMERCIAL FISHERY

Year	Employees	40' & Over	Under 40'	Gill M 000s	Pound Nets	Trap Nets	Hoop Nets
1980	1964	213	837	12,068	172	556	1630
1981	2043	237	885	12,616	160	689	1430
1982	2106	238	980	12,735	269	732	1504
1983	1981	251	770	12,579	207	776	1648
1984	1588	208	708	12,676	252	746	1409

Year	Seine M 00s	Freezers & Ice Houses	Wharves and Piers	Net Sheds	New Invest. \$000s	Total Value \$000s
1980	75	317	250	457	3,714	41,481
1981	77	291	275	476	5,447	54,676
1982	78	322	277	482	3,655	57,345
1983	89	277	243	444	3,327	58,775
1984	110	230	191	348	12,314	533,250

OUTDOOR RECREATION GROUP

ENFORCEMENT STATISTICS 1986-87

District or Region	No. of Field Conservation Officers	No. of Deputy Conservation Officers	No. of Contacts by Conservation Officers	No. of F & W Warnings
Algonquin	25.5	60	33,721	1,523
Central	30.5	85	74,887	3,985
Eastern	29.5	31	65,638	2,222
Northern	26.5	34	64,312	1,326
North Central	23	20	35,085	1,388
Northeastern	35	66	53,708	1,421
Northwestern	26	16	52,625	1,216
Southwestern	30.5	100	58,616	2,181
Total	226.5	412	438,592	15,262

District or Region	No. of F & W Charges	No. of Other Charges	Total Amt. of F & W Charge Fines	Total Amt. of Other Charge Fines	Total Amt. of Fines
Algonquin	886*	757*	\$ 67,722.00	\$ 42,085.00	\$109,807.00
Central	1,265	461	119,915.00	30,750.00	150,665.00
Eastern	975	544	59,522.37**	29,281.00	88,833.37
Northern	920	52	66,415.98	8,088.73	73,504.71
North Central	688	173	57,256.90	5,961.25	63,218.15
Northeastern	816	5	89,108.19	1,492.00	96,306.19
Northwestern	921	329	71,759.07	20,133.04	91,892.11
Southwestern	870	2,129***	67,613.00	143,497.00	211,110.00
Total	7,341****	4,450****	599,342.51**	281,288.02	885,336.53

* In Algonquin Region -- Park Warden laid 614 charges, DCO's laid 38 charges and fire personnel laid 38 charges.

** In addition to monetary fines -- convicted persons served 140 days incarceration and performed 90 hours of community service work.

*** 1,961 of this total are charges laid by Park Wardens.

**** Total number of charges: 11,791

LANDS AND WATERS GROUP

Room W-6626, Main Office Telephone (416) 965-6045

Executive Co-ordinator.....	Mike Garrett.....	W-6626...5-6046
Administrative Assistant.....	Wendy Ko.....	W-6623...5-1075
Co-ordinator, Group Projects...	Colin Turnpenney.....	W-6625...5-5067

LAND MANAGEMENT BRANCH

Room W-6643, Main Office Telephone (416) 965-1316

Branch Director.....	Sherry Yundt.....	W-6643...5-1498
Secretary.....	Barbara Bourne.....	W-6643...5-1316
Admin. Asst.....	Charmaine Andrews.....	W-6643...5-1316
Training Co-ordinator.....	vacant.....	W-6644...5-1607
Fuel Minerals Legislation		
Specialist.....	Sid Keen.....	W-6627...5-4599
Public Lands Section		
Supervisor.....	John Morton.....	W-6603...5-2741
Public Lands Management.....	Lloyd Fleguel.....	W-6621...5-4507
Water Power & Peat Co-ordinator	Ian Crawford.....	W-6621...5-2743
Land Appraisals and Property		
Management Officer.....	Cathy Douglas.....	W-6629...5-2742
Land Management Planning.....	Norman Gordon.....	W-6604...5-2742
Land Acquisition Officer.....	Tony D'Angelo.....	W-6629...5-2743
Field Advisory Officer.....	Cathy Hawthorne.....	W-6621...5-4507
	Terry Laldee.....	W-6621...5-2743
Titles Section		
Manager.....	Gary Sherman.....	W-6645...5-1319
Document Officer.....	Chris Egerton.....	W-6645...5-1319
Acreage Tax Administrator.....	Doris Holland.....	W-6645...5-1319
Records Officer.....	Roy Dixon.....	W-6645...5-1319
Land Records Manager.....	Vic Prasad.....	W-6645...5-1319
Access Roads Section		
Manager.....	Peter Brook.....	W-6646...5-5735
Policy Development Officer.....	vacant.....	W-6646...5-5735
Aggregate Resources Section		
Manager.....	Dale Scott.....	W-4646...5-1172
Aggregate Enforcement		
Policy Advisor.....	John Masham.....	W-4647...5-3127
Aggregate Policy Development		
Officer.....	Bill Murch.....	W-4645...5-3127
Pits & Quarries Rehabilitation		
Specialist.....	Brian Messerschmidt.....	W-4642...5-3127
Projects Officer.....	Geoff Bell.....	W-4643...5-3127
Fuel Minerals		
Manager.....	Ray Pichette.....	W-6641...3-1882
Senior Policy Advisor.....	John Fox.....	W-6641...3-1882
Secreatry.....	Margaret Phillip.....	W-6644...3-1882

PUBLIC LANDS in years ending March 31

Year	Patents		Leases		Licences of Occupation	
	No.	ha	No.	ha	No.	ha
1982	690	2,385	211	448	113	845
1983	1,093	1,517	114	208	96	472
1984	1,324	8,674	110	365	90	106
1985	1,591	1,788	100	189	101	92
1986	1,030	5,363	74	68	84	550
1987	826	917	96	186	51	28

LANDS ACQUIRED BY CROWN in years ending March 31

Year	Provincial Tax Forfeitures	Cancellation of Sales	Purchased or Otherwise Acquired	Forfeitures
	ha	ha	ha	ha
1982	492	-	722	6,275
1983	661	-	1,402	4,047
1984	482	1	520	2,832
1985	757	-	711	4,047
1986	440	130	734	497
1987	407	-	-	-

USE OF ACQUIRED LANDS areas in hectares, years ending March 31

Year	Provincial Parks	Lands General	Sport Fisheries	Wildlife Mgmt.	Timber Mgmt.	Total	Interim Property Mgmt.
	ha	ha	ha	ha	ha	ha	
1982	588	32	47	24	31	722	26,633
1983	261	56	146	213	726	1,402	25,113
1984	420	2	-	-	98	520	20,280
1985	504	79	4	101	23	711	13,687
1986	151	243	1	73	266	734	14,421
1987	562	74	-	542	388	1,566	-

VALUE OF ONTARIO FUEL & STRUCTURAL MATERIALS OUTPUT BY MNR REGION

REGION	1984 \$	1985 \$
ALGONQUIN REGION		
Structural Materials	8,539,362	13,523,040
CENTRAL REGION		
Natural Gas, Petroleum	1,119,386	1,017,119
Structural Materials	358,368,545	420,122,725
	<hr/>	<hr/>
	359,487,931	421,139,844
EASTERN REGION		
Structural Materials	131,719,952	143,658,508
NORTH CENTRAL REGION		
Structural Materials	7,945,640	6,676,262
NORTHERN REGION		
Structural Materials	4,602,866	2,747,822
NORTHEASTERN REGION		
Structural Materials	33,387,954	37,474,486
NORTHWESTERN REGION		
Structural Materials	11,301,325	16,308,817
SOUTHWESTERN REGION		
Natural Gas, Petroleum	84,622,963	96,863,291
Structural Materials	165,830,847	191,279,272
	<hr/>	<hr/>
	250,453,810	288,142,563
ONTARIO TOTAL	807,438,840	929,671,342

ONTARIO FUELS & STRUCTURAL MATERIALS PRODUCTION IN 1985 AND 1986

		1985		1986	
	Unit	Quantity	Value \$	Quantity	Value \$
FUELS					
Natural Gas	000 cu.m.	589,863	73,143,000	532,435	68,774,630
Petroleum	cu.m.	112,953	24,737,000	135,816	17,343,707
Total Value, Fuels			97,880,000		86,118,337
STRUCTURAL MATERIALS					
Clay Prod.	-	N/A	86,653,738	N/A	98,000,000
Cement	tonne	3,589,916	265,048,133	3,965,000	282,189,000
Lime	tonne	1,652,463	109,975,700	1,633,000	140,421,000
Sand & Gravel	tonne	64,184,285	158,346,951	69,250,000	167,400,000
Stone	tonne	45,854,480	211,766,410	48,000,000	220,000,000
Total Value, Structural Materials			831,790,932		908,010,000
TOTAL			\$929,670,932		\$994,128,337

N.B. Source of statistics is 1986 Ontario Mineral Score, published by Mineral Statistics Section, Ministry of Northern Development and Mines.

1986/87 MNR ROADS PROGRAM

REGION	kms Con./Recon.	Bridges Con./Recon	Expenditures (\$000s)	kms Maintained	Expenditures (\$000s)
NORTHERN ONTARIO					
Northwestern	6.3	-	265.3	495.8	330.1
North Central	45.3	-	868.9	1,394.3	414.6
Northern	48.0	-	638.9	819.1	656.0
Northeastern	18.0	13	966.0	1,411.5	371.7
Sub Totals	117.6	13	2,739.1	4,120.7	1,772.4
SOUTHERN ONTARIO					
Algonquin	9.5	-	87.6	636.2	277.7
Eastern	2.0	-	9.3	391.0	126.2
Central	1.0	-	2.0	72.2	69.8
Southwestern	-	-	-	33.6	5.9
Sub Totals	12.5	-	98.9	1,133.0	479.6
PROVINCIAL TOTALS	130.1	13	2,838.0	5,253.7	2,252.0

Program includes: Forest Access, Agreement Forest, Cottage Access,
Ministry Service, Recreation, Public Transport and
Private Forest Roads.

1986/87 NORTHERN ONTARIO RESOURCES

TRANSPORTATION COMMITTEE - DIRECT PROGRAM (MNR portion only)

REGION	kms Con./Recon.	Bridges Con./ Recon.	Expendi- tures (\$000s)	kms Main- tained	Expendi- tures (\$000s)	kms Winter Road	Expendi- tures (\$000s)
Northwestern	22.1	-	1,388.8	120.0	53.0	235	356.4
North Central	-	-	-	-	-	-	-
Northern	7.0	-	465.7	-	-	301	120.2
Northeastern	35.0	-	413.9	12.0	10.0	-	-
TOTAL	64.1	-	\$2,268.4	132.0	\$63.0	536	\$476.6

1986/87 NORTHERN ONTARIO RESOURCES TRANSPORTATION

COMMITTEE - INDIRECT PROGRAM (COMPANY) - (MNR Portion Only)

REGION	kms Con./Recon	Bridges Con./Recon.	Expenditures (\$000s)
Northwestern	40.4	-	601.8
North Central	13.6	-	206.0
Northern	8.8	-	348.7
Northeastern	33.0	-	412.1
Algonquin	3.1	-	75.9
TOTAL	98.9	-	\$1,644.5

TOTAL N.O.R.T.C. EXPENDITURE - \$4,452.5

1986/87 FOREST MANAGEMENT AGREEMENT PROGRAM*

REGION	kms Con./Recon.	Expenditures (\$000s)	kms Maintained	Expenditures (\$000s)
Northwestern	198.2	4,892.6	634.5	219.1
North Central	343.1	8,060.0	485.4	308.8
Northern	475.1	12,496.5	1,966.8	932.4
Northeastern	273.1	5,155.2	534.7	250.8
TOTAL	1,289.5	30,604.3	3,621.4	\$1,783.1

* The FMA Program is funded in accordance with agreements between MNR and forest companies.

1986/87 RESOURCE ACCESS PROGRAM SUMMARY
MNR ROAD & BRIDGE CONSTRUCTION & MAINTENANCE

Crown	MNR Roads Program	NORTC Program	COFRDA Program	FMA Program	Totals
Road Con./ Recon. (kms)	130.1	64.1	57.6	-	251.8
Expenditures (\$000s)	2,838.0	2,268.4	2,507.1	-	7,613.5
Road Main- tained (kms)	5,253.7	130.0	-	-	5,385.7
Expenditures (\$000s)	2,252.0	63.0	-	-	2,315.0
Winter Roads Maintained (km)	-	536.0	-	-	536.0
Expenditures (\$000s)	-	476.6	-	-	476.6

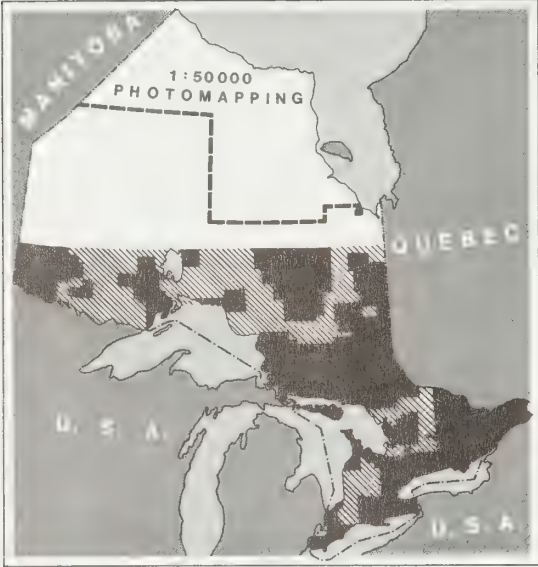
ROADS & BRIDGES CONSTRUCTED & MAINTAINED
BY COMPANIES UNDER AGREEMENT

Company	NORTC Program	COFRDA Program	FMA Program	Totals
Road Con./ Recon. (kms)	98.9	79.9	1,289.5	1,468.3
Expenditures (\$000s)	1,644.5	810.9	30,604.3	33,059.7
Road Main- tained (kms)	-	-	3,621.4	3,621.4
Expenditures	-	-	1,783.1	1,783.1

Lands and Waters Group




SURVEYS, MAPPING AND REMOTE SENSING BRANCH
90 Sheppard Ave. East, 4th Floor, North York, Ont. M2N 3A1

Director.....	Dr. J. M. (George) Zarzycki.....	733-5083
Special Projects.....	Cy Osborne.....	733-5087
Technical Assistant.....	Brian Jackson.....	733-5084
Geographical Information Services		
General Manager.....	Zul Jiwani.....	733-5145
A/Manager, GIS Applications and Technology Transfer.....	Gabriella Zillmer.....	733-5113
A/Manager, Digital Topographic Data Base.....	Barry Costello.....	733-5114
A/Manager, Topographic Mapping.....	Roy Audas.....	733-5090
Manager, Thematic Mapping.....	Fred Dawson.....	733-5126
Geomatic Analyst.....	C. Broughton.....	733-5044
Ontario Centre for Remote Sensing		
Associate Director.....	Victor Zsilinszky.....	733-5147
Chief Scientist.....	Dr. Simsek Pala.....	733-5067
Senior Scientist.....	Andrew Jano.....	733-5068
Staff Scientist.....	Tracey J. Ellis.....	733-5072
Staff Scientist.....	John Fischer.....	733-5075
Staff Scientist.....	Richard Mussakowski.....	733-5070
Staff Scientist.....	David White.....	733-5071
Systems Manager.....	David Derrick.....	733-5073
Senior Research Engineer.....	Vernon Singhroy.....	733-5074
Airborne Program Co-ordinator..	D. Ian Ross.....	733-5155
Staff Scientist.....	Norman Goba.....	733-5269
Airborne Program Specialist....	E. Ted Senese.....	733-5079
Photo Research Lab Supervisor..	Dusan Klimes.....	733-5081
Surveying Services		
Surveyor General.....	S. B. (Barney) Panting.....	733-5142
A/Manager, Surveys.....	Richard F. Weatherbe.....	733-5103
Asst. Mgr. Technical Services..	J. A. (Jim) MacIntosh.....	733-5101
Asst. Mgr. Legal Descriptions & Research.....	vacant.....	733-5100
Senior Survey Plan Examiner....	Robert Stocker.....	733-5102
Survey Records Information.....	Dennis E. Jeanes.....	733-5109
Geographic Names Manager.....	Michael B. Smart.....	733-5110
Manager, Geodetic Surveys.....	Kevin M. Kelly.....	733-5138
Manager, Drafting Services.....	Dave Robeson.....	733-5130



MAPPING SERVICES
ONTARIO BASIC MAPPING



1:20 000 , 1:10 000 scales

-  Completed .
-  In progress .
-  To be mapped .

1:2 000 scale

- 157** Municipalities completed
- 8** Municipalities in progress

SURVEYING SERVICES

-  Area of original township surveys .
-  Township boundaries resurveyed / restored .

10160 kms completed .



SURVEYING SERVICES

Township Boundary Resurvey Program

Year	Km. Resurveyed
<hr/>	
1961-62	334.34
1962-63	277.93
1963-64	276.89
1964-65	604.39
1965-66	601.94
1966-67	466.07
1967-68	419.07
1968-69	442.59
1969-70	424.87
1970-71	494.71
1971-72	529.47
1972-73	388.93
1973-74	306.95
1974-75	395.11
1975-76	277.82
1976-77	324.82
1977-78	328.31
1978-79	494.39
1979-80	525.29
1980-81	461.72
1981-82	407.57
1982-83	405.30
1983-84	307.50
1984-85	276.00
1985-86	251.60
1986-87	274.60
<hr/>	
Total	10,297.60

CROWN LAND SURVEY PLAN EXAMINATIONS

Year	No. Plans Examined
1979-80	317
1980-81	323
1981-82	641
1982-83	791
1983-84	831
1984-85	501
1985-86	448
1986-87	620

DESCRIPTIONS PREPARED

Year	No. Descriptions Prepared
1979-80	903
1980-81	779
1981-82	1,052
1982-83	1,585
1983-84	2,119
1984-85	1,618
1985-86	2,030
1986-87	1,936

PROVINCIAL HORIZONTAL CONTROL SURVEY

Data Base COSINE

Year	Stations Loaded
1981-82	10,000
1982-83	13,000
1983-84	11,000
1984-85	3,000
1985-86	3,500
1986-87	1,500
Total	42,000

PRECISE CALIBRATION BASELINE INSTALLATION

Year Installed	Baseline Name
<hr/>	
1977-78	Mississauga
1979-80	Scarborough
1980-81	Burlington
1981-82	London
1982-83	Belleville
1983-84	Lindsay & Conestoga
1985-86	Thunder Bay
1986-87	Barrie

Lands and Waters Group

OFFICE OF INDIAN RESOURCE POLICY

Room 6527, Whitney Block Telephone (416) 965-6045

Director.....	Ted Wilson.....	W-6527...5-6045
Secretary.....	Wendy Ko.....	W-6527...5-6045
Indian Resource Policy Advisor...	Jim Gosnell.....	W-6529...5-5201
Indian Resource Policy Analyst...	Barbara Anderson.....	W-6530...5-5201
Indian Resource Policy Analyst...	Jackie Hogan.....	W-6530...5-5201
Secretary.....	Vivian Zoras.....	W-6529...5-5201
Senior Indian Land Claims		
Analyst.....	Lise Hansen.....	W-6528...5-5201
Senior Indian Land Claims		
Researcher.....	David McNab.....	W-6526...5-5201
Indian Land Claims Researcher....	Gwynneth Jones.....	W-6530...5-5201
Indian Land Claims Researcher....	Deborah Doxtator.....	W-6530...5-5201
Indian Land Claims Resercher....	Victor Lytwyn.....	W-6530...5-5201
Secretary.....	Pat Williams.....	W-6530...5-5201

Lands and Waters Group

CONSERVATION AUTHORITIES AND
WATER MANAGEMENT BRANCH

Section 6, 5th Floor, Main Office Telephone (416) 965-6285

Branch Director..... Maurice Lewis..... W-5620...5-6287

CONSERVATION AUTHORITIES SECTION

Manager..... Richard Hunter..... W-5620...5-6285

Co-ordinator, Technical Systems.. Guirish Sardesai..... W-5620...5-6275

Administrative Assistant..... Devvy Green..... W-5620...5-6270

Planning Systems Co-ordinator.... Tom Farrell..... W-5620...5-6286

Librarian..... Alaine Perrigo..... W-5641...5-4481

Supervisor, Program

Implementation and Evaluation.... Glenn Price..... W-5620...5-6285

Land and Related Services

Co-ordinator..... Ray Dickie..... W-5620...5-1573

CA Transfer Payment

Co-ordinator Mary Willard..... W-5620...5-7694

Special Employment Co-ordinator.. Sharon Court..... W-5641...5-1799

Shoreline Management Planner..... vacant

TECHNICAL SERVICES SECTION

A/Manager..... Robert Chang..... W-5620...5-6295

Flood Damage Reduction Program

Co-ordinator..... Christine Kowalyk..... W-5620...5-6281

Supervisor, Streamflow

Forecast Centre..... Peter Gryniewski..... W-5636...5-6292

Head, Hydrometeorological Unit... Rob Fox..... W-5636...5-6293

Emergency Mgmt. Co-ordinator..... Lou Balogh..... W-5636...5-6277

Head, Great Lakes Water

Quality Management..... Dave Strelchuk..... W-5620...5-1271

A/Supervisor, Models and

Consultative Services..... Mac Odell..... W-5620...5-1271

Head, Model Development..... John Ding..... W-5641...5-1271

Water Resource Engineer..... Alex Harrington..... W-5641...5-1271

Shoreline Management Engineer.... vacant

GRANTS TO CONSERVATION AUTHORITIES
UNDER THE CONSERVATION AUTHORITIES ACT

in years ending March 31

Year	Administration \$	Water and Related Land Mgmt \$	Conservation and Recreation Land Mgmt \$	Lake Ontario Waterfront \$	Total \$
1981	5,202,220	27,724,128	3,436,411	1,500,342	37,863,102
1982	5,517,581	26,496,443	2,953,315	1,469,780	36,437,119
1983	6,591,399	26,693,614	3,130,218	1,574,000	40,989,231
1984	7,098,874	26,852,944	3,751,372	-	37,703,190
1985	7,483,719	25,023,841	4,223,991	-	36,731,551
1986	7,824,046	24,695,257	4,380,850	-	36,900,153
1987	8,284,039	24,576,681	9,562,119	-	42,422,839

Sources of Funding (1985):

Total Provincial Government Grants	40,651,103
Federal Government Grants	2,691,536
Total Municipal Levies	31,053,859
Authority Generated Revenues	19,988,963
TOTAL	94,385,461

GENERAL INFORMATION

Number of Conservation Authorities established in Ontario	38
Number of square kilometres within the jurisdiction of conservation Authorities	112,861
Municipalities participating in one or more Conservation Authorities	Regional 11 Local 497
Members appointed to Conservation Authorities	Elected 560 Non-elected 362
Staff Positions	Permanent 882 Casual 1,815 Special Employment 2,587

1985 RECREATIONAL PROGRAMS:

Gross Revenues from Recreation Programs	8,319,317
Operating Expenses re: Recreational Programs	11,292,592
Net Cost of Recreational Programs	2,973,275

PUBLIC RECREATIONAL USE OF CONSERVATION AREAS, 1984

Group Camping Nights	103,242
Family Camping Nights	982,886
Day Use	4,473,466

CONSERVATION SERVICES PROGRAM 1984

Number of landowners provided with direct technical assistance	2,643
Number of trees and shrubs planted	2,485,926

FLOOD CONTROL MEASURES IMPLEMENTED:

No. of metres of stream channel constructed	1985	3,900
	1984	4,880
	prior to 1984	197,790
No. of metres of watercourses dyked	1985	5,672
	1984	4,390
	prior to 1984	67,524

EROSION CONTROL MEASURES IMPLEMENTED

No. of metres of erosion control	1985	14,814
	1984	13,477
measures constructed	prior to 1984	75,124

FLOOD PLAIN MAPPING AND FILL LINE MAPPING COMPLETED

km of watercourses mapped	1985	319
for <u>both</u> flood plain <u>and</u>	1984	541
fill line delineations	prior to 1984	9,642
km of watercourses mapped	1985	102
for flood plain delineation <u>only</u>	1984	412
	prior to 1984	1,076
km of watercourses mapped	1985	669
for fill line delineation <u>only</u>	1984	504
	prior to 1984	7,466

CURRENT, FEE SIMPLE LAND OWNERSHIP BY
CONSERVATION AUTHORITIES TO 1985

Flood Plains	25,093 ha
Shorelines	3,107 ha
Wetlands	15,843 ha
Agreement Forests	38,084 ha
Non-agreement Forests	13,122 ha
Wildlife Areas	8,139 ha
Recreation Lands	19,868 ha
Other	7,175 ha

TOTAL	130,431 ha
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MUNICIPAL PLAN INPUT AND REVIEW 1985

No. of documents reviewed:	
Official Plans	1,198
Zoning Bylaws	6,673
Subdivisions	958
Minor Variances/Consents	11,662
Development Control	2,638
Property Clearances	14,603

FILL AND CONSTRUCTION REGULATION ENFORCEMENT 1985

No. of permits granted	2,677
No. of permits refused	124
No. of violation notices issued	213
No. of appeals to Ontario Mining and Lands Commissioner	13

AVIATION AND FIRE
MANAGEMENT CENTRE

Box 310, Sault Ste. Marie, Ontario P6A 5L8
Telephone (705) 942-1800
Telex 067-77166 (Aviation), 067-77134 (Fire Management)

Director.....	Lou Lingenfelter.....	(705) 942-1800
Secretary.....	Helena Paciepnik.....	1800
Co-ordinator, Management & Planning.....	Glenn Doan.....	1800
Communications Officer.....	Bob Thomas.....	1800
Finance and Administration Spvr..	Bill Sinclair.....	1800
Group Personnel Officer.....	Julie Byer.....	1800
Purchasing Officer.....	Edith Esson.....	1800
 Fire Management Section		
Assistant Director, Fire.....	Michael Willick.....	1800
Supervisor, Provincial Fire Operations.....	Tom Campbell.....	1800
Provincial Fire Centre Manager.	George Koistinen.....	1800
Supervisor, Research & Development.....	Paul Ward.....	1800
Systems Co-ordinator.....	Ron Cote.....	1800
Fire Management Education Co-ordinator.....	Bruce Little.....	1800
 Aviation Section		
A/Assistant Director, Aviation.	George Willoughby.....	1800
A/Chief Pilot.....	Floyd Swant.....	1800
Maintenance Superintendent.....	George Willoughby.....	1800
Assistant Supt. Maintenance Airframe Section.....	Guy Larocque.....	1800
Engine Section.....	Paul Holder.....	1800
Quality Control Inspector.....	Steve Denley.....	1800
 Communications Section		
Communications Supervisor.....	Henry Kling.....	1800
Avionics Co-ordinator.....	Paul Quinn.....	1800
Ground Communications Supvr....	John Tidman.....	1800
 Executive Flight Operations, Malton		
Flight Operations Manager.....	Jamie Sargent.....	(416) 678-1173
Assistant Manager, Flight Operations.....	vacant.....	(416) 678-1173
Regional Pilot.....	Al Bieck.....	(416) 678-1173
 China Project		
Canadian Project Director.....	Merrill Rush.....	(705) 942-1800

FOREST FIRE RECORD

Areas in hectares

Year	Damage \$	Private Property Damage \$	Area Burned Over			Number of Fires	Area per Fire
			Crown ha	Private ha	Total ha		
1917	-	-	-	-	155,466	1,110	140
1918	-	-	-	-	12,210	965	12
1919	-	-	-	-	373,186	1,780	210
1920	-	-	-	-	145,222	1,287	113
1921	-	-	-	-	303,326	1,269	239
1922	-	-	-	-	140,099	1,021	151
1923	-	-	-	-	857,995	1,343	639
1924	-	-	-	-	59,091	851	69
1925	-	-	-	-	76,705	1,149	67
1926	-	-	26,664	9,100	35,764	1,110	32
1927	-	-	9,216	5,248	14,464	924	16
1928	-	-	39,026	1,598	40,624	536	76
1929	-	-	246,353	6,836	253,189	1,550	163
1930	-	-	144,688	143,371	288,059	1,402	206
1931	-	-	42,843	13,120	55,963	1,851	30
1932	-	-	253,558	21,232	274,790	2,073	133
1933	-	-	131,537	10,086	141,623	1,919	74
1934	-	-	64,891	15,493	80,384	1,568	51
1935	-	-	74,130	27,309	101,439	1,309	77
1936	-	-	466,957	44,741	511,698	2,264	226
1937	-	-	81,701	9,251	90,952	1,453	63
1938	-	-	38,918	17,028	55,946	1,292	43
1939	-	-	10,558	1,218	11,776	961	12
1940	-	-	40,869	8,346	49,215	1,014	49
1941	-	-	109,991	159,751	269,742	1,265	213
1942	-	-	31,448	14,571	46,019	1,224	38
1943	-	-	13,543	7,831	21,374	624	34
1944	-	-	29,635	38,713	68,348	1,137	60
1945	-	-	7,283	12,348	19,631	966	20
1946	-	-	18,072	12,996	31,067	1,739	18
1947	-	-	15,416	18,591	34,007	1,393	24
1948	-	-	345,917	65,806	411,723	2,036	202
1949	-	-	16,427	7,880	24,307	1,834	13
1950	55,148	103,682	5,343	9,541	14,884	985	15
1951	389,447	56,389	39,118	1,854	40,972	904	45
1952	29,504	31,347	2,940	2,087	5,027	1,095	4
1953	393,874	81,778	18,016	5,783	23,799	1,520	16
1954	406,241	15,650	14,615	7,518	22,133	881	25
1955	3,591,680	184,940	150,118	10,309	160,427	2,252	71
1956	3,068,152	22,319	89,768	1,777	91,545	1,017	90

Year	Damage \$	Private Property	Area Burned Over			Number of Fires	Area per Fire
		Damage \$	Crown ha	Private ha	Total ha		
1957	463,059	113,751	9,814	9,065	18,879	1,671	11
1958	311,503	97,036	10,337	4,496	14,833	1,558	10
1959	22,041	20,757	1,044	1,093	2,137	1,029	2
1960	438,094	56,442	11,813	888	12,701	956	13
1961	31,989,802	152,639	477,894	1,549	479,443	1,305	367
1962	74,748	99,165	3,069	2,517	5,586	1,521	4
1963	706,888	39,932	16,467	6,251	22,718	1,885	12
1964	500,296	19,792	9,090	2,291	11,381	1,829	6
1965	386,850	254,105	6,068	1,987	8,055	1,218	6
1966	71,521	49,457	3,421	2,413	5,834	1,921	3
1967	1,353,919	87,638	23,768	1,930	25,698	1,465	17
1968	4,174	54,146	1,078	2,751	3,829	1,219	3
1969	134,756	4,623	1,813	669	2,482	901	3
1970	1,323,041	28,815	-	-	22,727	1,239	18
1971	462,064	75,875	-	-	41,973	1,790	23
1972	1,081,876	47,446	-	-	32,029	1,604	20
1973	11,944	121,900	2,417	1,190	3,607	1,111	3
1974	12,063,428	239,384	522,641	1,346	523,987	1,625	323
1975	683,726	340,414	11,226	5,630	16,856	3,146	5
1976	26,839,738	930,514	536,529	7,578	544,107	3,985	136
1977	11,190,900	252,565	411,752	4,564	416,316	2,049	203
1978	165,267	139,386	7,040	483	7,523	940	8
1979	2,310,161	60,032	63,322	393	63,715	1,564	41
1980	72,094,096	3,254,443	524,486	35,819	560,305	1,779	315
1981	9,171,418	60,906	173,473	5,994	179,467	1,656	108
1982	116,695	71,068	2,555	1,337	3,892	1,396	3
1983	15,230,649	352,210	442,163	1,499	443,662	2,244	198
1984	787,487	652,985	118,853	1,567	120,420	1,240	97
1985	69,552	319,329	682	325	1,007	887	1
1986	20,331,092	525,234	143,692	1,869	145,561	1,088	134

1986 FOREST FIRES BY DISTRICT

District	Number of Fires	Hectares Burned Over	ha per Fire
Dryden	30	7.1	.2
Fort Frances	36	30.3	.8
Ignace	13	2.5	.2
Kenora	73	147.3	2.0
Red Lake	49	129,705.0	2,647.0
Sioux Lookout	95	4,487.6	47.2
Atikokan	45	81.1	1.8
Geraldton	41	3,643.2	88.9
Nipigon	21	11.7	.6
Terrace Bay	18	244.3	13.6
Thunder Bay	37	175.3	4.7
Chapleau	24	35.5	1.5
Cochrane	15	981.1	65.4
Gogama	7	32.6	4.7
Hearst	24	168.0	7.0
Kapuskasing	20	369.3	18.5
Kirkland Lake	10	19.2	1.9
Moosonee	18	4,691.9	260.7
Timmins	13	4.2	.3
Blind River	8	5.2	.7
Espanola	7	6.6	.9
North Bay	36	52.9	1.5
Sault Ste. Marie	5	1.0	.2
Sudbury	76	143.6	1.9
Temagami	17	16.9	1.0
Wawa	29	192.0	6.6
Algonquin Park	30	23.6	.8
Bancroft	23	25.6	1.1
Bracebridge	27	14.0	.5
Minden	24	21.7	.9
Parry Sound	45	29.2	.6
Pembroke	78	103.1	1.3
Carleton Place	17	11.8	.7
Tweed	36	53.2	1.5
Huronias	3	.9	.3
Lindsay	12	16.2	1.4
Owen Sound	26	6.4	.2
TOTAL	1,088	145,561.1	133.8

1986 FOREST FIRES BY MONTH

Month	Number of Fires	Hectares Burned Over	ha per Fire
March	15	20.6	1.4
April	246	625.2	2.5
May	276	133,870.6	485.0
June	161	6,844.5	42.5
July	194	2,398.4	12.4
August	152	1,770.6	11.6
September	35	16.3	.5
October	7	4.8	.7
November	2	10.1	5.1
December	-	-	-
TOTAL	1,088	145,561.1	133.8

DETECTION OF FOREST FIRES

Agencies	1982	1983	1984	1985	1986
Ministry Aircraft *	221	584	163	112	139
Other	9	11	6	6	8
Total Organized Detection	230	595	169	118	147
Public	1,038	1,277	948	702	851
Other Aircraft	128	372	123	67	90
Total Random Detection	1,166	1,649	1,071	769	941
Total Fires	1,396	2,244	1,240	887	1,088
Percentage Organized Detection	17	27	14	13	14

* Includes other ministry detection

SIZES OF FOREST FIRES

Area Burned Over	1986
Up to .2 hectares	522
.2 to 4.0 hectares	457
4.0 to 40 hectares	75
40 to 200 hectares	14
Over 200 hectares	20
Total Fires	1,088

PROSECUTIONS

Actions re: Forest Fires	1982	1983	1984	1985	1986
Prosecutions	72	89	78	56	131
Convictions	68	82	73	54	124

CAUSES OF FOREST FIRES - I

General Causes	1982	1983	1984	1985	1986
Recreation	517	494	276	229	244
Resident	224	181	221	165	202
Incendiary	39	48	69	27	37
Railways	160	161	94	122	128
Industry (Forest)	11	36	21	31	26
Industry (Other)	22	25	45	29	23
Miscellaneous (Known)	156	178	199	93	147
Unknown	30	31	29	22	40
Lightning	237	1,090	286	169	241
Total Fires	1,396	2,244	1,240	887	1,088

CAUSES OF FOREST FIRES - II

Source of Ignition	1982	1983	1984	1985	1986
Smoking Materials	323	250	136	121	108
Camp Fires	243	274	157	124	155
Matches	105	94	98	57	85
Fireworks	1	2	-	-	1
Explosives	-	1	-	-	-
Fusee	9	3	5	6	2
Prescribed Burning	3	2	1	-	4
Dump Ashes, Coals	9	7	6	13	6
Burning Grass	73	38	44	34	59
Burning Brush	37	52	55	56	53
Burning Rubbish	44	31	35	24	24
Burning Garbage Dump	23	34	33	18	35
Burning Bulldozed Pile	-	3	3	3	2
Burning Sawdust Pile	2	-	3	2	1
Burning Ties	19	9	12	9	9
Burning Right-of-Way	20	9	8	14	10
Locomotive, Diesel	27	35	14	7	39
Locomotive, Steam	-	-	-	-	1
Brake Shoe	44	61	30	37	41
Overheated Journal Box	-	2	-	4	6
Rail Grinding	-	13	7	22	-
Power Saw	2	3	4	3	6
Mechanical Equip. (Other)	34	30	12	23	21
Mechanical Equipment (Scarification)	-	9	6	3	4
Power Line (Short)	15	32	114	28	21
Sparks from Chimney	2	1	2	1	1
Sparks from Burner	1	1	1	-	1
Structural Fires	11	16	8	12	17
Miscellaneous (Known)	23	26	32	20	26
Unknown	91	116	128	77	109
Lightning	235	1,090	286	169	241
Total Fires	1,396	2,244	1,240	887	1,088

CAUSES OF FOREST FIRES - III

Responsible Groups	1982	1983	1984	1985	1986
RECREATION					
Fishermen	158	161	110	82	97
Hunters	16	13	15	17	6
Canoeists	45	37	22	19	27
Campers	61	69	28	25	20
Picnickers	14	20	1	6	8
Berry Pickers	141	91	38	20	15
TRAVELLERS					
Car Passengers	76	61	35	36	48
Hikers	25	28	10	15	20
Train Passengers	-	-	1	1	1
Guided Parties	2	-	-	-	1
RESIDENTS					
Farmers	26	26	17	19	12
*Rural Residents	152	137	173	116	171
Urban Residents	12	13	5	8	7
Private Cottagers	34	44	42	27	29
Resort Owners	2	-	5	3	3
VOCATION					
Trappers	-	-	1	1	1
Prospectors	1	2	4	1	3
Timber Cruisers (not MNR)	-	-	-	2	-
Survey Parties	-	-	-	-	-
Military	1	-	-	-	1
EMPLOYEE OF					
Woods Industry	12	33	16	29	27
Mining	1	4	1	3	3
Pipeline	-	-	-	1	-
Hydro	2	4	5	6	3
Telephone	-	1	-	-	-
Highway or Road	1	1	1	1	-
R. R. Section Crew	39	25	16	25	23
R. R. Train Crew	24	21	17	33	22
R. R. Work Crew	94	110	57	61	81
Other Industry	12	9	11	9	10
Natural Resources	17	6	10	4	8
Other Prov. Government	-	1	-	-	-
Federal Government	-	1	-	-	-
Municipality	6	5	2	2	6
MISCELLANEOUS					
Children	68	76	82	42	74
Youth Camps	-	6	3	2	-
Miscellaneous (Known)	24	66	134	41	36
Unknown	94	83	92	61	83
Total Human-Caused Fires					
	1,160	1,154	954	718	846
Percentage of All Fires					
	83	51	77	81	78

*Note: Indians (on Reserves) has been deleted under Residents. Fires for years 1981-84 now appear under Rural Residents.

AIR SERVICE SUMMARY - I

Hours flown in years ending March 31

Year	Fire Ranging	Timber	Fish and Wildlife	Surveys	Lands	Parks
1982	1,973	1,760	2,600	360	1,120	640
1983	3,037	1,670	2,460	425	1,217	530
1984	1,364	1,725	2,328	423	1,093	625
1985	1,640	1,830	2,960	478	1,309	590
1986	976	2,065	3,827	392	1,601	254
1987	1,045	1,765	3,425	410	1,160	160

Total 1924-87	247,328	47,978	124,651	5,578	22,775	15,915
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Year	Research	Inter- Ministry	Photo	Mercy Flights	Misc.	Total
1982	400	1,647	656	58	4,789	16,003
1983	456	1,885	640	13	2,855	15,188
1984	450	3,078	572	22	3,111	14,791
1985	474	3,931	680	29	454	14,375
1986	338	1,763	493	13	3,759	15,481
1987	350	4,000	510	10	3,205	16,040

Total 1924-87	11,951	46,342	9,797	1,968	186,246	720,429
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AIR SERVICE SUMMARY - II

in years ending March 31

Year	Mercy Flights	Passengers Carried	Loads Carried Tons	Metric Tons
1982	28	28,485	988.00	1,089
1983	8	30,267	2,069.17	2,280
1984	16	29,175	1,856.73	1,893
1985	13	31,023	1,988.50	2,192
1986	6	18,534	4,609.30	5,080
1987	5	22,480	3,596.20	3,965

1986 PRESCRIBED BURNING SILVICULTURE, HAZARD REDUCTION, MISC.

<u>District</u>	<u>Burns</u>	<u>Hectares</u>
Dryden	1	256.0
Fort Frances	5	420.0
Ignace	1	44.0
Red Lake	1	98.0
Sioux Lookout	1	50.0
Atikokan	1	302.0
Geraldton	4	2,012.0
Nipigon	1	194.0
Thunder Bay	1	420.0
Cochrane	2	442.0
Gogama	2	1,099.0
Hearst	3	1,470.0
Kapuskasing	3	1,597.0
Kirkland Lake	1	1,543.0
Timmins	3	1,525.0
Blind River	4	480.0
Espanola	2	20.2
North Bay	1	110.0
Sault Ste. Marie	1	37.0
Sudbury	2	212.0
Temagami		966.0
Wawa	3	717.0
Bracebridge	2	39.0
Carleton Place	1	24.0
Minden	2	6.2
Owen Sound	2	3.1
Parry Sound	1	22.0
Tweed	2	145.0
Chatham	1	65.0
Huronias	1	4.9
58		14,323.4

FEDERAL RESEARCH BURNS - Nil

ADMINISTRATION DIVISION

Room 6345, Whitney Block Telephone (416) 965-7106

Assistant Deputy Minister.....	Rick Monzon.....	W-6345...5-7106
Administrative Assistant.....	Cindy Blancher.....	W-6344...3-2005
Secretary.....	Enid Lynch.....	W-6345...5-7106
Finance and Administration Group		
Executive Co-ordinator.....	Michele Fordyce.....	W-6347...5-6148
Communications Services Branch		
Director.....	Valerie Chavossy.....	W-5352...5-3315
Human Resources Branch		
Director.....	Mike Barker.....	W-4530...5-3825
Legal Services Branch		
Director.....	Barry Jones.....	W-6420...5-2748
Office of Management, Planning and Analysis		
A/Director.....	John Byrne.....	W-6350...5-4143
Manpower Planning		
Director.....	Harold Farrant.....	W-6312...3-3754
MNR Ideas.....	John Simpson.....	W-3312...3-1206

Administration Division

COMMUNICATIONS SERVICES
BRANCH

Room 5340, Whitney Block Telephone (416) 965-2756

Branch Director.....	Valerie Chavossy.....	W-5352...5-3315
Secretary.....	Donna Sharp.....	W-5340...5-3315
Special Projects Co-ordinator..	Hugh Williams.....	W-5340...5-1281
Northern Ontario Communications Co-ordinator.....	Ken Robertson.....	W5340....5-2756
Information Services Section		
Manager.....	Marj Welch.....	W-5340...5-2756
Media Liaison Officer.....	John Dadds.....	W-5340...5-2756
Media Liaison Officer.....	Shirley Teasdale.....	W-5340...5-2756
Writing & Editorial Supervisor..	Brian LeGrow.....	W-5340 5-2756
Senior French Language Writer..	Danielle Legault.....	W-5340...3-0163
Landmarks Editor.....	Sandra McGuire.....	W-5340...5-2758
Employee Communications Co-ordinator.....	Nancy Rahtz.....	W-5340...5-2758
Educational Programs Co-ordinator.....	Susan Gesner.....	W-5340...5-2781
Public Information Centre		
Supervisor.....	vacant.....	W-1640...5-2445
Parks Information.....	.....	W-1640...5-3081
Fisheries Information and Licence Sales.....	.....	W-1640...5-7883
Wildlife Information and Licence Sales.....	.....	W-1640...5-4251
Forestry/Lands Information.....	.....	W-1640...5-9751
Maps Information.....	.....	W-1640...5-6511
Aerial Photos.....	.....	W-1640...5-1123
Minerals Information.....	.....	W-1640...5-1348
Creative Services Section		
A/Manager.....	Felix Barbetti.....	W-5440...5-2780
A/Supervisor Exhibits & Displays Unit.....	Felix Barbetti.....	W-5440...5-2780
Supervisor, Publications Services Unit.....	Charity Haines.....	W-5440...5-2780
Publications Editor.....	Marie Reid.....	W-5440...5-2780
Graphic Designer.....	Askin Gokhan.....	W-5440...5-2780
A/Supervisor, Audio Visual Unit	Alan Campeau.....	W-5440...3-1325
Photographer.....	Heather Bickle.....	W-5440...3-1325
Film & Audio-Visual Consultant.	Lloyd Walton.....	W-5440...3-1325
Policy, Planning and Promotion		
Manager.....	Peter Andrews.....	W-5440...3-2957
Advertising and Marketing Officer.....	Jeff Standard.....	W-5440...3-2956
Communications Planning Co-ordinator.....	Gerry Merchant.....	W-5440...3-2958

Administration Division

HUMAN RESOURCES BRANCH

Room 4520, Whitney Block Telephone (416) 965-3825

Branch Director.....	Mike Baker.....	W-4530...5-3825
Personnel Policy Manager.....	Roger Gordon.....	W-4528...5-6091
Services and Administration Manager.....	Ed Polonoski.....	W-4520...5-7240
Human Resources Planning Manager.	Wayne Yetman.....	W-4531...3-1963
Training and Development Manager.	Bob Brayshaw.....	W-4422...5-1468
Occupational Health & Safety Section Manager.....	Tony Shipston.....	W-5645...5-2735
Special Programs Manager.....	Bev Robson.....	W-4611...5-5663

STAFF SUMMARY

Total MNR Staff as of March 31, 1987

	Regular	Probationary	Unclassified	Total
Main Office	960	97	402	1,459
Field Office	2,913	119	1,401	4,433
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TOTAL	3,873	216	1,803	5,892

Total Number of Positions	4,333
Total Number of Staff	4,089
Total Number of Vacancies	244
New Employees Hired 1986/87	157

Management Staff	1,066
Executive Staff	42
Bargaining Unit Staff	2,913
Position Excluded Staff	68

Total	4,089
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Deceased	12
Transferred	38
Released	6
Resigned	78
Dismissed	1
Retired	69

Total	204
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STAFF SUMMARY

at March 31, 1987

	1982	1983	1984	1985	1986	1987
Regular Staff	4,093	4,163	3,948	3,819	3,804	3,873
Probationary Staff	203	141	49	140	182	216
Unclassified Staff	1,565	1,380	1,601	1,646	1,595	1,803
TOTAL	5,867	5,684	5,598	5,605	5,581	5,892
Main Office Staff	863	917	887	992	1,022	960
Field Office Staff	3,439	3,387	3,110	2,967	2,964	2,913
New Employees	140	160	57	101	151	157
Deceased	9	12	11	8	7	12
Retired	45	78	156	59	80	69
Transferred	36	17	18	16	23	38
Resigned	81	73	85	44	67	78
Dismissed	1	1	2	2	1	1
Released	0	1	1	3	4	6
Miscellaneous	0	1	0	0	0	0
Total Separations	172	183	273	132	182	204
Junior Rangers	1,736	1,636	1,716	1,716	1,716	1,716

MANAGEMENT GROUPS

Administrative	256
Clerical	7
Operational	12
Professional	291
Technical	500

Total	1,066
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Executive Compensation Plan	42
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Position Excluded	68
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BARGAINING UNIT CATEGORIES

Administrative Services	128
Scientific & Professional	403
Technical Services	1,279
Office Administration	830
Maintenance Services	201
General Operational Services	72

Total	2,913
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Administration Division

LEGAL SERVICES BRANCH

Room 6420, Whitney Block Telephone (416) 965-2748

Director.....	Barry G. Jones.....	W-6420...5-2748
Senior Solicitor.....	Lou Low.....	W-6420...5-2748
Solicitors.....	Mel Crystal.....	W-6420...5-2748
	Mary-Pat Koskie.....	W-6420...5-2748
	Charlein E. Mansfield...	W-6420...5-2748
	Deborah Pigeon Bernotas.	W-6420...5-2748
	Ronald F. Robinson.....	W-6420...5-2748
	Alan R. E. Ryan.....	W-6420...5-2748
	Susan A. Klein.....	W-6420...5-2748
	Linda H. Kolyn.....	W-6420...5-2748
	David G. Searle.....	W-6420...5-2748
	W. Richard Grace.....	W-6420...5-2748
	Paul Gonsalves.....	W-6420...5-2748

Legal matters dealt with by the Branch include legal opinions, drafting statutes, regulations, orders in council, litigation and all other matters of a legal nature affecting the Ministry.

LEGISLATION

The Acts administered by the Ministry are as follows:

LANDS AND WATERS GROUP

BEACH PROTECTION ACT prohibits the removal of sand from the bed, bank, beach, shore or waters of any lake, river or stream in Ontario except under the authority of a licence issued under the Act or written consent of the local municipality.

BEDS OF NAVIGABLE WATERS ACT (sometimes referred to as the "Cochrane Act") is declaratory legislation relating to title in the beds of navigable waters. It followed the decision in the 1911 case of Keewatin Power versus The Town of Kenora. By the Act, the beds are deemed not to have passed to the grantee of bordering Crown land in the absence of an express grant.

CANADA COMPANY'S LAND ACT, 1922, empowers the Crown to sell and convey to purchasers of lands from the Canada Company the mineral rights in the lands.

CONSERVATION AUTHORITIES ACT provides for the establishment of conservation authorities for the purpose of establishing and undertaking in the area over which they are given jurisdiction, programs designed to further the conservation, restoration, development and management of natural resources other than gas, oil, coal and minerals.

LAKES AND RIVERS IMPROVEMENT ACT deals with: the construction, repair and use of dams; timber driving; and timber slide companies. The Act prohibits construction of dams without Ministry approval. The Minister is given discretionary powers relating to the repair, reconstruction and removal of dams, maintenance of water levels, and regulation of use of waters or works.

MINING ACT sections 112, 113, 114, 115 and 162 only. The remainder of the Mining Act is now administered by the Ministry of Northern Development and Mines.

NORTH GEORGIAN BAY RECREATIONAL RESERVE ACT, 1962-3, establishes the North Georgian Bay Recreational Reserve and provides for the planning and development thereof and the appointment of a committee to advise the Minister thereon.

ONTARIO GEOGRAPHIC NAMES BOARD ACT provides for the establishment of a Geographic Names Board for Ontario having the duty to gather information respecting the names of places and geographical features, make recommendations thereon, collaborate with the Canadian Permanent Committee on Geographic Names, and provide information to government departments, etc.. The Minister may approve a recommended name and thereupon it shall be used by all government departments and agencies in the preparation of maps and other publications.

ONTARIO HARBOURS AGREEMENT ACT, 1962-63, confirms on behalf of Ontario the agreement between Ontario and Canada establishing the harbours which were public harbours at Confederation, providing that mines and minerals therein are administered by Ontario and confirming grants and quit claims listed therein. The federal harbours are Amherstburg, Belleville, Brockville, Chatham, Collingwood, Fort William, Gananoque, Goderich, Kincardine, Kingston, Kingsville, Leamington, Oshawa, Owen Sound, Penetanguishene, Port Arthur, Port Burwell, Port Hope, Port Stanley, Prescott, Rondeau Bay, Sarnia, Sault Ste. Marie, Southampton, Toronto, Whitby and Windsor.

PUBLIC LANDS ACT provides for: (1) A Public Agricultural Lands Committee to recommend on agricultural lands and their settlement, replacing the regulations on this subject; (2) The disposition of Crown land for a variety of purposes by sale, lease or licence, and by auction or tender; (3) The management of Crown land by the Ministry by zoning for land use, setting apart for public use, research, etc., and through agreements with municipalities on beaches and water lots; (4) The administration of roads on Crown lands including the designation of public forest roads and agreements with occupiers of private forest roads respecting the use by the public of private forest roads; (5) The administration and control of the construction and maintenance of dams; (6) The granting of water powers and privileges.

SURVEYORS ACT deals with the Association of Ontario Land Surveyors and the rules governing membership and conduct. The Surveyor-General is a member of the Council of the Association.

SURVEYS ACT defines the system of surveys and the rules for surveys. The Minister orders surveys made on his volition or upon application to settle disputes or lost lines, etc., and hearing evidence, he confirms the surveys, with or without amendment. His decision is subject to appeal to the Divisional Court.

FOREST RESOURCES GROUP

ARBOREAL EMBLEM ACT, 1984 adopts the Eastern White Pine as the arboreal emblem of the Province of Ontario.

CROWN TIMBER ACT enables the granting of the following four types of licences to cut Crown timber, a licence based on a call for tenders, a licence to salvage timber, a licence for areas that do not exceed 64.75 hectares (160 acres), and a licence approved by Order in Council for large areas.

The Act also enables the Minister to enter into comprehensive forest management agreements with members of the forest industry to ensure that forests under the agreements are harvested and regenerated to produce successive crops of timber on a sustained yield basis.

Crown Management Units may be established under the Act and agreements entered into for the supply of Crown timber from such units. Under this arrangement, the party to the agreement does not have exclusive rights in a specific area until a licence is granted to him to fill his requirements for an operating season.

Crown dues and area charge are fixed by the regulations.

Other subjects dealt with are: forest management, operating and annual plans; examination of scalers and licensing of scalers; licensing of mills; penalties for wasteful practices, unauthorized cutting, removal of timber for scaling, and other violations; and protection of the Crown's interests through seizure of timber and a statutory lien for Crown charges.

ALGONQUIN FORESTRY AUTHORITY ACT establishes a Crown corporation known as the Algonquin Forestry Authority to harvest Crown timber in Algonquin Provincial Park and public lands adjacent to the park, to sell the logs and also to carry out such forestry, land management and other programs and projects as the Minister of Natural Resources authorizes.

FORESTRY ACT. Under this Act: (1) The Minister enters into agreements with landowners such as municipalities, conservation authorities and the National Capital Commission (Ottawa) to manage the forest lands; (2) Ministry tree nurseries are established and nursery stock is distributed; (3) Private forest reserves are set up on private lands with the consent of the owner; (4) The Minister, with the approval of the Lieutenant Governor in Council, may establish programs for the encouragement of forestry. At present, a managed forest tax reduction program has been established by the Minister.

FOREST TREE PEST CONTROL ACT provides for the control of outbreaks of forest tree insects and diseases on private lands.

SETTLERS' PULPWOOD PROTECTION ACT provides for the regulation of the sale and of the price of pulpwood cut from settlers' land.

SPRUCE PULPWOOD EXPORTATION ACT provides for the exportation under the authority of an Order in Council of unmanufactured spruce pulpwood from lands granted under special Acts which prohibit such export.

TREES ACT provides that, with the Minister's approval, municipalities may pass by-laws restricting and regulating the destruction of trees and appoint enforcement officers. Generally, by by-law, municipalities may acquire land for forestry purposes and enter into agreements with the Minister for the management of such lands and related matters.

WOODLANDS IMPROVEMENT ACT provides for the Minister to enter into agreements with owners of lands suitable for forestry purposes and situate in a private forest management area for the planting of nursery stock or stand improvement.

WOODMEN'S EMPLOYMENT ACT authorizes the appointment of inspectors and the making of regulations respecting conditions in lumber camps. It also provides that Crown timber licensees are responsible for the acts and omissions of their jobbers and subcontractors who carry out operations.

WOODMEN'S LIEN FOR WAGES ACT provides a lien and a procedure to enforce such lien for persons performing labour on timber.

MINERAL RESOURCES GROUP

PITS AND QUARRIES CONTROL ACT provides for the regulation of pit and quarry operations in designated parts of Ontario. Operations in designated areas must be licensed under the Act and are subject to periodic review to assure compliance with the provisions of the Act, the regulations and site plan.

PETROLEUM RESOURCES ACT sets out licensing requirements for various aspects of oil and natural gas exploration, drilling and production and provides for the making of regulations respecting oil and gas conservation and the safe operation of drilling and production facilities.

INDUSTRIAL AND MINING LANDS COMPENSATION ACT provides for agreements between the owner or operator of a mine and the owner or lessee of any land for payment of compensation for any damage or injury resulting or likely to result to the land or to its use and enjoyment from the operation of the mine.

GAS AND OIL LEASES ACT sets out the procedure whereby a lessor under a gas or oil lease may, upon default by the lessee under the terms of the lease, obtain an order declaring the lease void.

OUTDOOR RECREATION GROUP

ENDANGERED SPECIES ACT provides for the conservation, protection, restoration and propagation of species of flora and fauna of the Province of Ontario that are threatened with extinction.

FISHERIES ACT (CANADA) Ontario Fishery Regulations are made under this Act. They relate to open seasons for angling and commercial fishing and the licences required. The form of licences and the fees are prescribed under the Game and Fish Act.

FISHERIES LOAN ACT provides for loans to persons carrying on the business of commercial fishing or any other business dependent in whole or in part on the taking of fish from waters in which such taking has been prohibited by reason of the contamination of fish resulting from pollution of the water. Provision is made for federal-provincial agreements respecting the sharing of such loans.

FISH INSPECTION ACT is complementary to the Federal Act.

FRESHWATER FISH MARKETING ACT (ONTARIO) complements the Freshwater Fish Marketing Act (Canada). Through these Acts and the federal-provincial agreement, the Freshwater Fish Marketing Corporation established under the Federal Act is the sole purchaser of commercial fish, as defined in the Federal Act, taken in that part of Ontario designated in the regulations, i.e., that part of Ontario westerly of longitude 86 degrees except the Territorial District of Rainy River but including that part of Lake of the Woods in the Territorial District of Rainy River. Sales to and purchases by persons for their own consumption or for consumption by persons or animals in the course of the purchaser's business are excepted.

GAME AND FISH ACT deals with the management of wildlife resources; game animals; game birds (upland); fur-bearing animals; frogs; sale and rearing of game fish; and offences and enforcement. Regulations made under the Act establish open seasons for hunting and trapping; bag limits; Crown game preserves; the licensing of hunters, trappers, guides, persons operating game bird hunting preserves, and persons selling game fish for stocking and human consumption; the regulating of dogs used in hunting, aircraft transporting hunters, and conduct of hunters (hunter safety); and farmer-hunter relations. The Game and Fish Hearing Board was established under the Act on November 15, 1973.

MIGRATORY BIRDS CONVENTION ACT. Open seasons for migratory birds are set under this Act.

PARKS ASSISTANCE ACT provides for the establishment of parks in municipalities or in territory without municipal organization. The Minister may with the approval of the Lieutenant-Governor in Council make grants not exceeding 50 per cent of the cost of acquiring land and developing such parks. The parks established under the Act are to be maintained and operated in a manner complementary to provincial parks.

PROVINCIAL PARKS ACT provides for the establishment of provincial parks and their management and for certain employees having the authority of the O.P.P. in a provincial park. Advisory committees for one or more provincial parks may be appointed by the Minister with the approval of the Lieutenant-Governor in Council. Parks may be classified as a natural environment park, a nature reserve park, a wilderness park, a recreational park, a waterways park, or an historical park. Any of these classes may be zoned with controlled use in zones.

Mining is prohibited in provincial parks except as provided in the regulations. The regulations on mining were revoked in 1956 but rights and interest existing at that time were preserved.

Hunting is prohibited in provincial parks except as provided in the regulations under the Game and Fish Act or where the prohibition is removed by designation of the Lieutenant-Governor in Council under the Provincial Parks Act. This does not apply to the Townships of Bruton and Clyde (added to Algonquin Provincial Park by a Special Act).

Concession leases are granted under the Act. The province calls for tenders for buildings and facilities.

A daily vehicle permit charge is \$3.50 or \$35.00 for an annual permit. A bus permit charge is \$14.00 per day. Senior Citizens are allowed free admission during the week except for camping on weekends, when half rates apply. Campsite charges are \$8.25 per night, or \$9.25 per night where shower facilities are available, and \$11.00 per night for campsites with electrical power. The charge for an extra car on a campsite is \$3.75 per night. On unorganized campsites in park interiors the charge is \$3.00 per person. Group camping charge is \$6.25 per night for adults per campsite and \$1.25 per night for persons 19-65 years of age. Reservation fee for campsite is \$2.25. The above fees reflect those charged during peak periods. They may vary, depending on location and time of year.

This Act does not apply to any park under the management of the Niagara Parks Commission, the St. Lawrence Parks Commission or the St. Clair Parkway Commission.

WILDERNESS AREAS ACT was passed on March 26, 1959, to preserve areas having some unique feature. Development or utilization of the natural resources in an area more than 260 ha (640 acres) in size is not affected by this Act.

WILD RICE HARVESTING ACT prohibits the harvesting of rice on Crown land except under the authority of a licence.

AVIATION AND FIRE MANAGEMENT CENTRE

FOREST FIRES PREVENTION ACT applies to the seven fire regions set up by regulation. The fire season from April 1st to October 31st, may be extended by regulation. Fire permits are required during the fire season to (a) start fires in a fire region except for fires lit for cooking or warmth or to (b) ignite fireworks in or within 300 m of a forest or woodland. Work permits are required at any time of the year for carrying on any logging, mining, industrial operation or clearing in or within 300 m of a forest or woodland. Areas may be established as restricted fire zones in which fires for cooking or warmth will be restricted to portable stoves and barbecues or as restricted travel zones in which a travel permit will be required except on public roads, cities, towns, villages, police villages, supervised camping grounds and water adjacent thereto. The Minister may declare emergency areas and may make orders for suppression and the safety and evacuation of persons. The Minister may enter into agreements with Canada, any province, any federal or provincial agency or municipality respecting the prevention and control of forest fires. The regulations establish fire precautions.

GENERAL

ALGONQUIN PROVINCIAL PARK EXTENSION ACT, 1960-1, adds the public lands in the Geographic Townships of Bruton and Clyde in the Provincial County of Haliburton to the park, subject to hunting.

GANANOQUE LANDS ACT, 1961-2, vests certain lands in the town of Gananoque in the Crown and authorizes the sale of encroachments to adjoining owners for a fee of \$50.00 and the granting of the balance of the land.

LAC SEUL CONSERVATION ACT, 1928, provides for the execution of an agreement between the Government of the Province of Ontario, represented by the Minister of Lands and Forests, the Government of Canada and the Government of the Province of Manitoba regarding the construction of a dam at the outlet of Lac Seul.

LAKE OF THE WOODS CONTROL BOARD ACT, 1922, is complementary to a Federal Act of 1921. It deals with the regulation of the water levels of the Winnipeg River, the English River, Lac Seul and Lake St. Joseph. The Board was created following a report in 1917 by the International Joint Commission which was established under a treaty made in 1909 between the United States and Great Britain. The membership of the Board consists of a Federal representative and one from Manitoba and two from Ontario. One Ontario member is appointed by the Ontario Hydro. The other is R. M. Odell, Chairman of the Lake of the Woods Control Board and Acting Supervisor, Models and Consultative Services, Conservation Authorities and Water Management Branch, Ministry of Natural Resources, with D. L. Strelchuk as alternate member.

The Board has the duty to secure severally and at all times the most dependable flow and the most advantageous and beneficial use of the waters of the Winnipeg and English Rivers and, for the purpose, to regulate the flow of:

- (a) Lake of the Woods, to levels recommended by the International Joint Commission as agreed by Canada and the United States;
- (b) Lac Seul, to levels recommended by the Board and approved by the Lieutenant-Governors in Council of Ontario and Manitoba and to regulate the flow into Lac Seul through the Lake St. Joseph diversion.
- (c) Winnipeg River, between its junction with the English River and Lake of the Woods, and the English River between its junction with the Winnipeg River and Lac Seul; and
- (d) Other waters of the watershed of the Winnipeg River as are placed under its jurisdiction by the Governor-General in Council and the Lieutenant-Governors in Council of Ontario and Manitoba.

MANITOBA-ONTARIO LAKE ST. JOSEPH DIVERSION AGREEMENT AUTHORIZATION ACT, 1958, provides for entry by Ontario and The Hydro-Electric Power Commission of Ontario into an agreement with Manitoba and The Manitoba Hydro-Electric Board in respect of the diversion of waters into the Winnipeg River and electrical power generated from such waters in Ontario and Manitoba.

MINERAL EMBLEM ACT, 1975, adopts the amethyst as the mineral emblem of the Province of Ontario.

MINISTRY OF NATURAL RESOURCES ACT effective as of April 1, 1972, created the new Ministry of Natural Resources by amalgamating the former Department of Lands and Forests and Department of Mines and Northern Affairs and repealed the provisions of a number of Acts on which the departments depended for administrative authority. Effective October 30, 1973, the Act provides for the appointment of a Mining and Lands Commissioner and advisory committees.

NATIONAL RADIO OBSERVATORY ACT, 1962-3, provides for the transfer of administration and control of certain public lands in the Township of White, District of Nipissing, to Canada for the maintenance and operation of a national radio observatory.

OTTAWA RIVER WATER POWERS ACT, 1943, ratifies and confirms an agreement between the Province of Ontario, the Province of Quebec, the Hydro-Electric Power Commission of Ontario and the Quebec Streams Commission respecting the development of water power on the Ottawa River.

SEINE RIVER DIVERSION ACT, 1952, confirms the partial diversion of the Seine River and authorizes the completion and operation of the diversion by Steep Rock Iron Mines Limited.

Administration Division

FINANCE AND
ADMINISTRATION GROUP

Room 6347, Whitney Block Telephone (416) 965-6148

Executive Co-ordinator.....	Michele Fordyce.....	W-6346...5-6147
Secretary.....	Linda Godin.....	W-6346...5-6147
Director, Information Technology		
Planning.....	John Findeis.....	W-6313...5-6688

Administration Division

SYSTEMS SERVICES BRANCH
Whitney Block, Room 6540 (416) 965-5671

Director..... John Queen..... W-6547...5-2750
Secretary..... Isabel Hardy..... W-6540...5-5671

Systems Co-ordination Section

Manager..... Ken Vogan..... W-5610...3-1450
Program Group Systems
Co-ordinators..... John Boufford..... W-5610...3-1316
Sue Mitchell..... W-5610...3-1316
Joe Paige..... W-5610...3-1316
Jane Wei..... W-5610...3-1316

Information Resources Development Section

Manager..... Ilmar Talvila..... W-6548...3-0361
Supervisor,
Data Co-ordination..... Leigh Bailey..... W-6545...3-1327
Senior Systems Officer,
Major Systems..... Les Davidson..... W-6540...3-3799
Systems Specialist..... Joe Chan..... W-6540...3-3790
Programmer/Analyst..... Tony Haynes..... W-6540...3-3790
Senior Systems Officer,
Advanced Technology Systems Ruth Orawski..... W-6502...3-2391
Programmer/Analyst..... Tony Porfilio..... W-6502...3-1318
Nick Ranieri..... W-6502...3-1318

Policy and Planning Section

Co-ordinator..... Colin Moulson..... W-6546...5-5674
Management Consultant..... Larry Goecke..... W-5611...3-3536
Security/Standards
Analyst..... Andrea Richardson..... W-6601...5-5828

Operations and Support Section

Manager..... Jim Andrew..... W-6543...3-1322
Supervisor, Operations..... Domenic Trentadue..... W-5426...5-3794
Senior Operations Analyst.. Doug Thompson..... W-5426...5-0116
Technical Operations
Officer..... Rakib Khan..... W-5426...5-0116
Technical Specialist..... Phil Mills..... W-5426...5-0938
Remote Job Entry Operator.. Walter Salamon..... W-5426...5-0116
Technical Support Officer.. Mike Allison..... W-6549...3-2392
Bill Temelkovski..... W-6549...3-2392

Client Support Services

Co-ordinator..... Jerry Sanford..... W-6544...5-3322
Training Co-ordinator..... Allyson McBryde..... W-6601...5-3355
Office Automation Specialist. Cynthia Jones..... W-5611...5-8508
Technical Support Officer.... Stuart Green..... W-6549...3-2392

Administration Division

INTERNAL AUDIT SERVICES BRANCH

Room 4633, Whitney Block Telephone (416) 965-4087

Branch Director..... Alan Ward..... W-4637...5-4087

Assistant Director and Senior

EDP Auditor..... Don Lay..... W-4634...5-4087

Northern Audit Section

Box 5000

Thunder Bay, P7C 5G6

Audit Manager..... Susan Soldan..... (807) 475-1211
(IC 844)

Sault Ste.Marie sub-office

875 Queen Street East

Sault Ste.Marie, P6A 2B3

Senior Auditor..... Bill Johnstone..... (705) 949-1231
(IC 842)

Southern Audit Section

c/o District Office

Maple, L0J 1E0

Audit Manager (acting)..... Larry Searle..... (416) 832-7250

Administration Division

FINANCIAL RESOURCES BRANCH

General Inquiry: Room W-4320, Main Office Telephone (416) 965-9774

Director.....	Amber J. Armitage.....	W-4324...5-2761
Chief Accountant.....	Ian Nott.....	W-4326...5-2761
Financial Methods.....	George Jarzabek.....	W-4328...5-1218
Financial Policy.....	Ed Young.....	W-4501...5-1033
Planning and Evaluation.....	Philip Wormwell.....	W-4427...5-7182
External Agency Co-ordinator...	Stan Mathewson.....	W-4427...5-7182
Financial Planning		
Co-ordinator.....	vacant.....	W-4427...5-7182
Senior Program Officers.....	Dave Boggs.....	W-4427...5-7182
	Anne Harris.....	W-4427...5-7182
Budget and Financial Control...	David H. Cope.....	W-4420...5-7086
Budget Co-ordinator.....	Jim MacDonald.....	W-4420...5-7086
Financial Reporting.....	Vince Ferrara.....	W-4321...5-1895
Accounting Operations.....	vacant.....	W-4311...5-2770
Revenue Co-ordinator.....	John Botterill.....	W-4443...5-2770
Data Conversion.....	Allison Burns.....	W-4310...5-2669
Accounts Payable.....	Claudette Obelnycki.....	W-4441...5-2251
Financial Services.....	Paul Comeau.....	W-4340...5-9774
Licence Issuing.....	Tom Tunnicliff.....	W-4341...5-2766
Payroll Services.....	Tom Tunnicliff.....	W-4342...5-2814
Financial Training and		
Administration Co-ordinator.....	John Heywood.....	W-4303...5-2764

Administration Division
Finance and Administration Group

REVENUE AND EXPENDITURES

in years ending March 31

Year	Budgetary Revenue \$	Budgetary Expenditure \$
1983	109,064,672	374,348,745
1984	116,366,507	407,490,465
1985	173,174,153	437,550,337
1986	218,368,140	443,945,965
1987	221,271,143	530,587,486

LANDS REVENUE

in years ending March 31

Year	Water Power \$	Crown Land Sales \$	Crown Land Rentals \$	Rentals & Fees \$	Pits and Quarries Licences \$	Land Use Permits \$
1983	23,613,132	1,690,312	994,362	1,858,606	162,750	647,007
1984	25,593,045	1,719,761	959,100	911,114	165,015	712,854
1985	67,389,828	1,499,961	939,607	1,492,382	158,225	873,559
1986	86,427,338	1,177,710	884,730	839,299	171,846	720,514
1987	89,776,502	1,181,356	1,007,676	1,030,282	207,409	882,798

Year	Forfeitures \$	Royalties \$	Taxes \$
1983	1,980	6,101,775	*450,300
1984	2,700	4,660,987	*475,200
1985	1,640	6,768,365	*480,500
1986	-	6,527,604	474,978
1987	345,527	6,081,256	530,095

* restated

LANDS REVENUE

in years ending March 31

Year	Assignments & Extension Fees \$	Cons. Authorities Federal Agreements \$	Return of Grants \$	Recovery Prior Years Land Acquisition \$	Misc. \$	Total \$
<hr/>						
1983	20,453	2,290,574	148,277	2,791	115,146	38,097,465
1984	22,575	1,617,533	172,653	38,597	386,148	37,437,282
1985	22,600	3,026,738	165,550	62	337,812	83,156,829
1986	24,350	1,362,034	41,927	96	666,657	99,319,083
1987	21,533	374,587	42,649	93	170,514	101,652,277

TIMBER REVENUE

in years ending March 31

Year	Stumpage Charges \$	Timber Area Charges \$	Nursery Tree Sales \$	Agreement Forest \$	Federal Agreement \$	Misc. \$	Total \$
<hr/>							
1983	39,137,899	3,435,840	943,801	539,326	-	64,177	44,121,043
1984	46,754,081	4,625,266	606,385	586,724	5,763	67,840	52,646,059
1985	55,473,234	4,375,434	659,927	410,222	145,372	73,940	61,138,129
1986	62,600,005	6,579,249	564,762	436,978	18,427,090	-	88,608,084
1987	64,128,627	6,436,371	848,879	577,852	14,122,318	53,505	86,167,552

PROVINCIAL PARKS REVENUE

in years ending March 31

Year	Permits \$	Campsite Permits \$	Concessions Rental \$
1983	1,195,392	6,555,071	402,132
1984	1,392,446	6,620,918	387,401
1985	1,154,514	6,749,029	347,185
1986	1,169,565	6,593,034	281,098
1987	1,357,241	7,425,164	87,020

Year	Federal Agreement \$	St. Clair Pkwy. Commission \$	Misc. \$	Total \$
1983	190,089	1,500	162,470	8,506,654
1984	14,879	-	155,269	8,570,913
1985	-	-	134,860	8,385,588
1986	-	-	134,964	8,178,661
1987	-	-	122,823	8,992,248

FISH AND WILDLIFE REVENUE

in years ending March 31

Year	Non-Res. Angling \$	Ontario Resident Fishing \$	Other Fishing \$	Commercial Fishing \$	Non-Res. Hunting \$
1983	7,466,134	-	169,829	148,254	1,382,798
1984	7,256,322	-	172,716	65,009	1,212,760
1985	9,197,224	-	185,642	179,953	1,262,753
1986	9,762,572	-	83,154	153,834	1,557,076
1987	10,213,465	1,391,506	80,760	140,410	1,693,610

FISH AND WILDLIFE REVENUE

Year	Resident Bear \$	Resident Deer \$	Resident Moose \$	Resident Groundhog \$	Res. (Gun) Hunting \$
1983	132,636	1,362,761	1,719,562	78,807	1,580,569
1984	147,866	1,507,761	1,404,361	2,782	1,490,967
1985	131,238	1,641,430	1,768,078	-	1,513,349
1986	136,046	1,880,319	1,893,418	-	1,607,278
1987	151,865	2,015,497	1,936,331	-	1,644,397

Year	Dog \$	Trappers \$	Fur Dealers \$	Hunter Exam Fee \$	Prov. Park Hunting \$
1983	73,258	62,923	9,675	86,178	67,264
1984	72,939	57,252	8,925	59,967	64,712
1985	75,278	56,259	9,150	63,342	50,160
1986	81,221	54,054	9,476	67,719	289,567
1987	87,763	58,989	8,851	71,958	302,915

Year	Misc. Fees & Licences \$	Royalty Game \$	Agreements		Total \$
			Outside Agencies \$	Federal \$	
1983	229,813	729,477	165,750	80,254	15,545,942
1984	194,324	669,126	120,829	431,243	14,939,861
1985	404,620	639,480	90,584	291,905	17,560,445
1986	28,437	740,775	47,755	267,086	18,659,787
1987	41,089	761,812	-	348,296	20,949,514

OTHER CASH RECEIPTS

in years ending March 31

Year	Sale of Maps, Publications etc. \$	Fire Costs Recovered \$	House Rentals \$	Sale of Buildings \$	Sale of Van and Equip. \$
1983	686,651	306,055	411,266	30,012	393,846
1984	634,013	160,740	402,108	6,946	490,149
1985	761,511	114,668	367,696	13,355	505,729
1986	618,551	331,611	427,710	9,849	422,766
1987	665,579	383,722	388,196	46,816	438,325

Year	Con- fiscated Articles \$	Frost Centre \$	Non-Recurring Items and Misc. \$	Board & Lodging \$	Total \$
1983	59,412	401,061	301,008	204,257	2,793,568
1984	42,695	457,832	403,170	174,739	2,772,392
1985	59,176	497,619	465,681	147,727	2,933,162
1986	75,536	519,889	1,058,329	138,284	3,602,525
1987	9,116	519,943	960,500	97,355	3,509,552

Administration Division

ADMINISTRATIVE SERVICES BRANCH

Room 5528, Whitney Block Telephone (416) 965-2711

Branch Director.....	Tony Pierro.....	W-5528...5-2711
Branch Administration		
A/Co-ordinator.....	Pamela Jean.....	W-5520...5-2711
Management Analysts.....	Geoff Kettel.....	W-5520...5-4600
	Fred Bishop.....	W-5520...5-4600
Operations Analysis Section		
Chief.....	Bob Armstrong.....	W-5526...5-3317
Fleet & Insurance.....	Lech Krol.....	W-5504...5-1255
Co-ordinator, Supply Mgmt.		
Unit.....	Loraine Wright.....	W-5520...5-4600
Purchasing Specialist.....	Wayne Howson.....	W-5520...5-4600
Supply Mgmt Projects Officer...	Barbara Martin.....	W-5520...5-4600
Supply Mgmt Specialist.....	Syd Griffin.....	W-5520...5-4600
Contracting Unit,		
A/Co-ordinator.....	Bruce McKay.....	W-5520...5-4600
Contracts Administrator.....	vacant.....	W-5520...5-4600
Services Section		
A/Chief.....	Dave Colvin.....	W-5527...5-4600
Purchasing Services Unit		
Manager.....	Melise Marcel.....	W-5533...5-1601
Facilities Development Services		
Unit Manager.....	Paul Coghill.....	W-5523...5-4645
Facilities Development		
Officer.....	Daniel Plamondon.....	W-5423...5-4645
Accommodation Services.....	Stan Fenton.....	W-5423...5-4645
Records Information Management		
Services Unit.....	Linda Fischer.....	W-5422...5-3822
Support Services Unit		
Manager.....	Ken Zubricki.....	W-5302...5-5134
Main Office Vehicle Pool.....	June Mills.....	W-5302...5-9988
Main Office Assets Control.....	.....	W-5302...5-5134
Copy Centre Services.....	.....	W-5502...5-6790
Mail Services.....	.....	W-5310...5-2778
Electronic Mail & Telecopier		
Services.....	.....	W-5312...5-2784
Central Supply Warehouse		
Supervisor.....	Doug Sibley.....	965-1286
(51 Esander Drive, Toronto)		
Conferences, Hospitality		
Services (acting).....	Dolly Gonsalvez.....	W-5301...5-6166

VEHICLES AND EQUIPMENT IN SERVICE

in year ending March 31, 1987

Type	Number in Operation
Subcompact Cars and Station Wagons	8
Compact Cars and Station Wagons	189
Full-size Cars and Station Wagons	54
Standard and Extended Pickups	890
Four-wheel Drive Vehicles	322
Crew Cabs	85
Passenger Vans and Personnel Carriers	159
Buses	6
Cab and Chassis - 10,000 GW	83
Cab and Chassis - over 10,000 GW	119
Cab and Chassis - specialized bodies	24
TOTAL	1,939
Motorcycles	49
Trailers (boat and equipment)	985
Trailers (refrigerated)	26
Snowmobiles	550
Tractors	319

NORTHWESTERN REGION

Box 5160, 810 Robertson St., Kenora Ont. P9N 3X9
 Phone (807) 468-3111

D. R. Johnston.....	Regional Director
W. J. Straight.....	Deputy Reg. Director
D. R. Fortner.....	Deputy Reg. Director
G. N. McGeachy.....	Admin. Co-ordinator
D. O. Wray.....	Forester
G. K. Winterton.....	Biologist
G. N. Warner.....	Safety Officer
R. H. Hanlan.....	Planning Co-ordinator
D. M. C. Lindstrom.....	Operations & Services Co-ordinator
K. J. Chambers.....	Resource Development Co-ordinator
W. Kostantin.....	Personnel Officer

Fire Management Centre
 T. Wood, Program Manager - Fire Management
 Box 850, Dryden, Ontario P8N 2Z5
 Phone (807) 937-4402

Dryden Tree Nursery
 M. McIntyre, Nursery Supt.
 Box 90, Wabigoon, Ontario P0V 2W0
 Phone (807) 938-6326

KENORA DISTRICT

Box 5080, 808 Robertson St., Kenora, Ont. P9N 3X9.
 Phone (807) 468-9841

G. G. Pyzer.....	District Manager
M. A. Allin.....	Administration
I. D. Mettan.....	Resource Management & Operations Supervisor
J. M. Waldrum.....	Forests
T. J. Lunny.....	Land Management
R. W. Paterick.....	Parks
J. T. Taylor.....	Fish and Wildlife

FORT FRANCES DISTRICT

922 Scott Street, Fort Frances, Ont. P9A 1J4
 Phone (807) 274-5337

P. A. McDonald.....	A/District Manager
L. G. Bent.....	Administration
S. E. Cameron.....	Parks & Operations
W. R. Darby.....	Fish & Wildlife
A. P. Matiece.....	Forests
B. M. McDonald.....	A/Land Management

SIOUX LOOKOUT DISTRICT

Box 309, Sioux Lookout, Ont. P0V 2T0
Phone (807) 737-1140

J. Young.....	District Manager
W. L. Bertrand.....	Administration
H. D. Morrison.....	Operations/Parks
A. A. Martin.....	Fish & Wildlife
B. A. Ferguson.....	Forests
F. E. Brown.....	Land Management

DRYDEN DISTRICT

Box 730, Ontario Gov't. Bldg., Dryden, Ont. P8N 2Z4
Phone (807) 223-3341

G. M. Tupling.....	District Manager
G. D. Tibbles.....	A/Administration
J. A. MacDonald.....	Parks & Operations
F. D. Kennedy.....	Forests
H. Gibbard.....	Fish & Wildlife
E. M. Wires.....	Land Management

RED LAKE DISTRICT

Box 5003, Red Lake, Ont. P0V 2M0
Phone (807) 727-2253

E. W. Everley.....	District Manager
B. A. Larkin.....	Administration/Operations
D. H. Anderson.....	Fish & Wildlife
J. D. Lawson.....	Forests
P. J. Pincombe.....	A/Land Management/Parks

IGNACE DISTRICT

Box 448, Ignace, Ont. P0T 1T0
Phone (807) 934-2233

P. R. Wyatt.....	District Manager
W. A. Brunton.....	Administration
P. R. Croskery.....	Fish & Wildlife
R. D. Scott.....	Forests
J. D. Bond.....	Field Services
vacant.....	Land Management

NORTH CENTRAL REGION

Box 5000, Ontario Government Building
 435 James St. South, Thunder Bay 'F' Ont. P7C 5G6
 Phone (807) 475-1261

G. P. Elliott.....	Regional Director	
M. S. Millar.....	Deputy Reg. Director	
W. Hendry.....	Deputy Reg. Director	
N. Nurse.....	Admin. Co-ordinator.....	1221
R. T. Thomson.....	Biologist.....	1231
A. B. Johnson.....	Fire Mgt. Program Manager.....	1265
R. B. Adamson.....	Engineer.....	1301
R. F. Calvert.....	Forester.....	1251
D. J. Murray.....	Lands & Parks Co-ordinator.....	1321
M. N. Kantymir.....	Personnel.....	1201
J. E. Jackson.....	Planning & Communications.....	1495
G. Vance.....	Information Officer.....	1695

Regional Fire Centre

L. R. Hutchinson - Fire Services.....	Phone (807) 475-1664
R. Doyon - Fire Operations.....	Phone (807) 475-1405
Thunder Bay Forest Nursery, R. A. Klapprat.....	Phone (807) 939-2561

THUNDER BAY DISTRICT

Box 5000, Thunder Bay 'F', Ont. P7C 5G6
 Phone (807) 475-1511

W. H. Therriault.....	District Manager
K. Perron.....	Administration & Engineering Services
E. R. Armstrong.....	Fish & Wildlife
R. D. Scott.....	Forests
J. W. Suttie.....	Lands
R. D. Klapprat.....	Forest Nursery

GERALDTON DISTRICT

Box 640, Geraldton, Ont. POT 1M0
 Phone (807) 854-1030

E. H. Stone.....	District Manager
L. S. Morrow.....	Administration
G. R. English.....	Fish & Wildlife
D. Jovic.....	Forests
G. K. House.....	Lands, Parks & Eng. Services (acting)

ATIKOKAN DISTRICT

108 Saturn Avenue, Atikokan, Ont. POT 1C0
 Phone (807) 597-6971

S. Toole.....	District Manager
R. N. Boyle.....	Field Services and Administration
B. H. Gibson.....	Fish & Wildlife
R. G. McColm.....	Forests
D. H. Elder.....	Lands & Parks

NIPIGON DISTRICT

Box 970, Nipigon, Ont. POT 2J0
 Phone (807) 887-2120

A. Currie.....	District Manager
M. Wilson.....	Administration & Operational Services
L. Townes.....	Fish & Wildlife
S. Tenaglia.....	Forests
D. Bean.....	Lands & Parks
P. Richard.....	Dorion Fish Culture Station (807) 857-2322

TERRACE BAY

Box 280, Terrace Bay, Ont. POT 2W0
 Phone (807) 825-3205

R. G. Running.....	District Manager
B. A. Prince.....	Field Services & Administration
J. A. Chappel.....	Fish & Wildlife
J. Nickleson.....	Lands & Parks

Manitouwadge Work Centre
 Box 309, Manitouwadge, Ontario
 POT 2C0 Phone (807) 826-3225
 R. W. Davidson..... Forests

NORTHERN REGION

Box 3000, 140 Fourth Ave., Cochrane, Ont. POL 1C0
Phone (705) 272-4287

R. Riley.....	Regional Director
Vacant.....	Deputy Reg. Director
R. I. Thompson.....	Fin. & Admin. Co-ordinator
D. E. McHale	Deputy Reg. Director
60 Wilson Avenue, Timmins, Ont. P4N 2S7	
Phone (705) 267-1401	
B. A. Sandilands.....	Outdoor Recreation Co-ordinator
J. S. Dougan.....	Personnel Manager
B. Blais.....	Aviation & Fire Management Program Manager
C. Roswalka.....	Safety Manager
M. J. Williams.....	Planning/Lands/Eng. Co-ordinator
G. Oldford.....	Forester
R. J. Landry.....	Operations Manager
P. G. Mongraw.....	Systems Co-ordinator
D. G. O'Reilly.....	Information Officer

COCHRANE DISTRICT

Box 730, 2 Third Ave, Cochrane, Ont.
POL 1C0 Phone (705) 272-4365

G. E. Martelle.....	District Manager
D. S. Miller.....	Support Services/Parks Supervisor
D. Stillar.....	Forest Management Supervisor
R. J. Jackson.....	Fish & Wildlife/Lands Supervisor

KAPUSKASING DISTRICT

6 Government Road, Kapuskasing, Ont P5N 2W4
Phone (705) 335-6191

J. R. Grayston.....	District Manager
S. A. MacFeeters.....	District Operations/Lands Supervisor
C. Jessop.....	Outdoor Recreation Supervisor
P. K. Ridwell.....	Forest Management Supervisor

CHAPLEAU DISTRICT

190 Cherry Street, Chapleau, Ont. POM 1K0
Phone (705) 864-1710

H. D. Howell.....	District Manager
J. R. Russell.....	Operations Supervisor
P. W. Varrin.....	Fish & Wildlife Supervisor
vacant.....	Forests
J. P. Dick.....	Lands & Waters Supervisor

KIRKLAND LAKE DISTRICT

Box 129, Swastika, Ont. POK 1T0
Phone (705) 642-3222

R. N. Kervin.....	District Manager
G. E. Allick.....	Finance and & Operations Supervisor
L. Chamberlin.....	Outdoor Recreation Supervisor
L. K. Ternent/B. I. Thompson....	Forest Management Supervisor
J. A. Colquhoun.....	Lands Supervisor

Swastika Forest Station, K. M. Buck..... Phone (705) 642-3255
Hill's Lake Trout Rearing Station, P. Graf..... Phone (705) 544-2834

GOGAMA DISTRICT

P.O. Box 129, Low Avenue, Gogama, Ont. POM 1W0
Phone (705) 894-2000

J. R. Chevalier.....	District Manager (705) 267-7951
J. Deem.....	Officer-in-Charge Lands/Parks Supervisor
R. Fink.....	Administration Supervisor
D. B. Elliott.....	Fish & Wildlife Management Officer/ Enforcement Supervisor
F. N. Pinto.....	Forest Management Supervisor

TIMMINS DISTRICT

896 Riverside Drive, Timmins, Ont. P4N 3W2
 Phone (705) 267-7951

J. R. Chevalier.....	District Manager
V. A. Mathieu.....	Operations Supervisor.
J. Cavanaugh.....	Fish & Wildlife Supervisor
J. S. Miller.....	Forest Management Supervisor
C. R. Biggar.....	Lands & Parks Supervisor

HEARST DISTRICT

631 Front St., Hearst, Ont. POL 1N0
 Phone (705) 362-4346

J. D. Walker.....	District Manager
W. C. Trowsse.....	Administration Supervisor
L. G. Woods.....	Field Services Supervisor
S. St. Jules.....	Fish & Wildlife Supervisor
C. Mason.....	Forest Management Supervisor
M. J. Girouard.....	Lands & Parks Supervisor

MOOSONEE DISTRICT

Box 190, Moosonee, Ont. POL 1Y0
 Phone (705) 336-2987

J. Kenrick.....	District Manager
W. J. Caie.....	District Administration Supervisor
G. F. McAuley.....	Field Services Supervisor
C. Lauer.....	Outdoor Recreation Supervisor
W. A. Hutchison.....	Senior Lands Technician/ Native Liaison Officer

NORTHEASTERN REGION

199 Larch Street, 9th Floor, Sudbury, Ont. P3E 5P9
Phone (705) 675-4120

M. A. Klugman.....	Regional Director
J. E. Hamilton.....	Deputy Regional Director
F. Wilson.....	Deputy Regional Director
C. Emblin.....	Regional Forester
G. W. Evershed.....	Regional Planner
Ms K. McWhirter.....	Regional Finances and Admin. Co-ordinator
B. T. Cannon.....	Regional Lands Administrator
Mrs. M. Chambers.....	Personnel Services Co-ordinator
vacant.....	Regional Information Officer
A. W. McClellan.....	Cons. Auth. & Safety Program Supervisor
M. Healey.....	Fire Management Program Manager
W. C. Stevens.....	Regional Forester
E. A. Wright.....	Parks/Rec. Co-ordinator
P. Bewick.....	Regional Biologist
H. Walsh.....	Regional Engineer

Tarentorus Trout Rearing Station
Sault Ste. Marie

R. D. Earl - Manager..... Phone (705) 949-1235

North Bay Trout Rearing Station

M. Bohm - Manager..... Phone (705) 663-2311

Sandfield Fish Hatchery
Espanola

G. Clarke - Manager..... Phone (705) 859-3370

Kirkwood Nursery,..... Phone (705) 842-3914

G. W. Connell - Superintendent

SAULT STE. MARIE DISTRICT

Box 130, 875 Queen St., Sault Ste. Marie, Ont. P6A 5L5
Phone (705) 949-1231

J. F. Christian.....	District Manager
H. J. Smith.....	Administration Supervisor
C. Greenwood.....	Fish & Wildlife Supervisor
B. Smith.....	Forests Mgt. Supervisor
I. J. Valentine.....	Lands & Parks Supervisor
E. Vaughan.....	Engineering Services Supervisor

SUDBURY DISTRICT

Box 3500, Stn. A, Sudbury, Ont. P3A 4S2
Phone (705) 522-7823

J. A. Simpson.....	District Manager
M. H. Jackson.....	District Administration Supervisor
G. J. Haarmeyer.....	Fish & Wildlife Supervisor
D. R. Potvin.....	Forests Management Supervisor
M. K. Smith.....	Lands Supervisor
D. H. Brunette.....	Parks Supervisor

NORTH BAY DISTRICT

Box 3070, R.R. #3, Hwy. 63
North Bay, Ont. P1B 8K7
Phone (705) 474-5550

J. R. Morin.....	District Manager
G. E. Lacelle.....	District Admin. Supervisor
M. R. Wolfe.....	Fish & Wildlife Supervisor
D. E. Honeyborne.....	Forests Management Supervisor
R. V. Coulombe.....	Lands Management Supervisor
F. C. Shaver.....	Parks Supervisor

BLIND RIVER DISTRICT

Box 190, 62 Queen St., Blind River, Ont. P0R 1B0
Phone (705) 356-2234

B. Lannin.....	District Manager
F. McWhinnie.....	Administration Supervisor
S. B. Woodside.....	Fish & Wildlife Supervisor
C. F. Husk.....	Forests Management Supervisor
R. H. Wood.....	Lands Supervisor

WAWA DISTRICT

Box 1160, 22 Mission Road, Wawa, Ont. P0S 1K0
Phone (705) 856-2396

T. J. Rudolph.....	District Manager
Mrs. J. M. Kern.....	District Admin. Supervisor
E. Armstrong.....	Fish & Wildlife Supervisor
vacant.....	Forests Management Supervisor
E. V. Uhler.....	Lands Supervisor
A. L. Robinson.....	Parks Supervisor

ESPANOLA DISTRICT

Box 1340, 148 Fleming St., Espanola, Ont. P0P 1C0
 Phone (705) 869-1330

E. N. Arbuckle.....	District Manager
Mrs S. Catling.....	District Admin. Supervisor
D. R. Hughson.....	Outdoor Recreation Supervisor
H. A. Liljalehto.....	Forests Management Supervisor
D. C. Carnochan.....	Lands Management Supervisor

TEMAGAMI DISTRICT

Box 38, Lakeshore Dr., Temagami, Ont. P0H 2H0
 Phone (705) 569-3622

R. Griffiths.....	District Manager
C. M. Hamilton.....	District Admin. Supervisor
B. A. Hillier.....	Forests Management Supervisor
R. B. Sinclair.....	Lands Supervisor
M. France-Bernier.....	Outdoor Recreation Supervisor

ALGONQUIN REGION

Box 9000, Brendale Square, Huntsville, Ont. P0A 1K0
 Phone (705) 789-9611

vacant.....	Regional Director
J. H. Lever.....	Deputy Reg. Director
L. L. Powell.....	A/Admin. Co-ordinator
P. A. Smith.....	Regional Biologist
A. P. Stephen.....	Regional Engineer
B. Petman.....	Program Manager - Fire Management
T. E. Dodds.....	Regional Forester
J. A. van der Meer.....	Lands Co-ordinator
G. M. Moroz.....	Parks & Recreation Co-ordinator
R. P. Dubien.....	Systems Analyst

Pembroke Trout Rearing Station
 (Privatized - Envirocon Ltd.).... Phone (613) 687-5935

Skeleton Lake Fish Hatchery
 C. Core..... Phone (705) 769-3731

Haliburton-Hastings Fisheries
 Assessment Unit..... Phone (613) 332-3940

Algonquin Park Fisheries
 Assessment Unit..... Phone (705) 637-2780

Fire Management - Inside Fire Region
 Fire Operations Managers

J. McCabe.....	Parry Sound.....	(705) 746-4201
T. Russell.....	Minden.....	(705) 475-2107
B. Gagnon.....	Pembroke.....	(613) 732-3661
P. Gallagher..	Tweed.....	(613) 478-2330

PARRY SOUND DISTRICT

4 Miller St, Parry Sound, Ont. P2A 1S8
 Phone (705) 746-4201

W. J. Lovering.....	District Manager
F. Buchan.....	Administration & Support Services
J. F. Gardner.....	Fish & Wildlife
G. C. Felton.....	Forests
L. W. Eaton.....	Parks
L. A. Connelly.....	Lands & Waters

BANCROFT DISTRICT

Box 500, Bancroft, Ont. K0L 1C0
 Phone (613) 332-3940

J. A. vander Meer (acting).....	District Manager
D. H. Loftus.....	Support Services
V. B. Collins.....	Fish & Wildlife
F. J. Walker.....	Forests
D. W. McLennan.....	Petroglyphs Park
O. J. Fleming.....	Lands & Parks Supervisor

ALGONQUIN PARK DISTRICT

Box 219, Whitney, Ont. K0J 2M0
 Phone (705) 637-2780

C. I. Goddard.....	Park Superintendent/District Manager
E. A. Dayment.....	Administration
D. F. George.....	Forests
G. E. Cox.....	Outdoor Recreation
B. A. Norris.....	Field Services & Lands

PEMBROKE DISTRICT

Box 220, Riverside Drive, Pembroke, Ont. K8A 6X4
 Phone (613) 732-3661

L. J. Haas.....	District Manager
A. H. Plummer.....	Administration Supervisor
A. E. Armstrong.....	Fish & Wildlife
R. C. A. Gilbert.....	Forests
G. D. Yarranton.....	Lands
G. D. Yarranton.....	A/Parks

BRACEBRIDGE DISTRICT

Box 1138, Bracebridge, Ont. POB 1C0
Phone (705) 645-8747

H. P. Endress.....	District Manager
J. A. Hamilton.....	Administration & Support Services
E. R. Thomas.....	Fish & Wildlife
G. K. Schultz.....	Forests
J. A. Bryant.....	Lands
R. G. Ellis.....	Parks

MINDEN DISTRICT

Minden, Ont. KOM 2K0
Phone (705) 286-1521

D. D. White.....	District Manager
R. E. Raby.....	Administration & Support Services
S. T. Flemming.....	Fish & Wildlife
B. G. Cross.....	Forests
J. E. Dewey.....	Lands, Parks & Services

THE LESLIE M. FROST NATURAL RESOURCES CENTRE

Dorset, Ont. POA 1E0
Phone (705) 766-2451

D. D. White.....	Director
R. W. Stewart.....	Plan & Management Superintendent
vacant.....	Operations Superintendent
E. F. Cyr.....	Field Operations Supervisor
T. G. Wright.....	Food Services
H. J. Barnhart.....	Maintenance Foreman

Specialists:

vacant.....	Forestry
M. E. Buss.....	Fish & Wildlife
C. K. Macdonald.....	Recreation
vacant.....	Lands
S. A. Williams.....	Visitor Services

EASTERN REGION

Provincial Government Building,
Concession Road, Kemptville, Ont. K0G 1J0
Phone (613) 258-3413

J. R. Oatway.....	Regional Director
D. E. Gage.....	Deputy Reg. Director, Resources
J. S. Anderson.....	Deputy Reg. Director, Services
J. R. Bailey.....	Administration Co-ordinator
J. C. Williamson.....	Biologist
J. D. Murray.....	Lands & Cons. Auth. Program Supervisor
W. P. Barber.....	Parks & Recreation Co-ordinator
J. R. Stork.....	Engineer
T. W. Fletcher.....	Mines Co-ordinator
P. E. Anslow.....	Forester
D. G. Kennedy.....	Fire Management Co-ordinator

Codrington Fish Hatchery

G. E. Raine..... Phone (613) 475-2512

White Lake Fish Hatchery

K. Steele..... Phone (613) 335-2115

Westport Fish Hatchery

K. Steele..... Phone (613) 273-2106

G. Howard Ferguson Forest Station

A. J. Campbell..... Phone (613) 258-3413

TWEED DISTRICT

Metcalfe Street, Tweed, Ont. K0K 3J0
Phone (613) 478-2330

A. J. Denys.....	District Manager
G. J. O'Hearn.....	Administration & Field Services
K. E. Green.....	Lands
T. C. Corbett.....	Outdoor Recreation
W. G. Haghorg.....	Forests

NAPANEE DISTRICT

1 Richmond Blvd., Napanee, Ont. K7R 3S3
Phone (613) 354-2173

vacant.....	District Manager
R. A. Armstrong.....	Finance, Administration & Field Services
R. W. Baldwin.....	Fish & Wildlife
S. Thatcher.....	Lands & Mineral Resources
J. C. Matheson.....	Parks

BROCKVILLE DISTRICT

Box 605, Oxford Ave., Brockville, Ont. K6V 5Y8
Phone (613) 342-8524

W. V. Hardy.....	District Manager
D. G. Gilmer.....	Finance, Administration & Field Services
G. L. Penney.....	Fish & Wildlife
W. M. Fasken.....	Forests
G. Tabobondune.....	Lands & Mineral Resources
B. A. Barkley.....	Fast Growing Hardwoods Group

CARLETON PLACE DISTRICT

10 Findlay Ave., Carleton Place, Ont. K7C 3Z6
Phone (613) 257-5735

J. H. Sellers.....	District Manager
G. N. Sanderson.....	Finance, Administration & Field Services
J. D. McCready.....	Forests
R. N. Jones.....	Fish & Wildlife
R. M. Rogers.....	Lands & Mineral Resources
K. J. Schonauer.....	Parks

CORNWALL DISTRICT

113 Amelia St. Cornwall, Ont. K6H 5V7
Phone (613) 933-1774

R. J. Cleroux.....	District Manager
W. J. Humphrys.....	Finance, Administration & Field Services
E. McGregor.....	Fish & Wildlife
B. W. Warwick.....	Forest Management
B. W. McCue.....	Lands & Mineral Resources

CENTRAL REGION

10670 Yonge St., Richmond Hill, Ont. L4C 3C9
Phone (416) 884-9203

A. S. Holder.....	Regional Director.....	883-3256
A. D. Latornell.....	Deputy Reg. Director.....	883-3258
H. Tjoelker.....	Deputy Reg. Director.....	883-3255
R. M. Clouthier.....	Support Services Co-ordinator.....	883-3201
J. B. Dawson.....	Biologist.....	883-3227
J. J. McFadden.....	Cons. Auth. Co-ordinator.....	883-3262
E. L. Borczon.....	Forester.....	883-3254
M. Narain.....	Geologist.....	883-3214
T. M. Kurtz.....	Engineer.....	883-3279
B. van Staaldunen.....	Parks & Recreation Co-ordinator....	883-3240
M. A. Groneng.....	Lands & Mines Co-ordinator.....	883-3216
D. P. Kolenosky.....	Systems Co-ordinator.....	883-3200
R. F. Kennedy.....	Personnel Officer.....	883-3250
K. G. Higgs.....	Niagara Escarpment Co-ordinator....	883-3220

Midhurst Forest Station, Midhurst

K. H. Reese..... Phone (705) 728-2900

Orono Forest Station, Orono

G. R. McLeod..... Phone (416) 983-9147

Ontario Tree Seed Plant, Angus

B. D. Swaile..... Phone (705) 424-5311

Deer Lake Fish Hatchery, R.R.#1, Havelock

G. T. Cation..... Phone (705) 778-3391

Ringwood Fish Hatchery

B. A. Marchant..... Phone (416) 640-6204

MAPLE DISTRICT

Maple, Ont. L0J 1E0

Phone (416) 832-2761

I. B. Earl.....	District Manager.....	203
W. B. Pottelberg.....	Support Services.....	300
R. L. Desjardine.....	Outdoor Recreation.....	211
Si Dae Kim.....	Forests.....	224
J. Cameron.....	Lands & Mineral Resources.....	208

LINDSAY DISTRICT

322 Kent St. West, Lindsay, Ont. K9V 4T7
 Phone (705) 324-6121

P. A. Strassburger.....	District Manager
A. V. Kaufman.....	Support Services
P. Drysdale.....	Fish & Wildlife
G. Higham.....	Forests
L. C. Selby.....	Lands & Minerals
G. Scott.....	Parks

HURONIA DISTRICT

Midhurst, Ont. LOL 1X0
 Phone (705) 728-2900

W. D. Mansell.....	District Manager
D. H. Poff.....	Support Services
A. W. Smith.....	Fish & Wildlife
vacant.....	Forests
D. R. MacArthur.....	Services
J. R. Winters.....	Parks

CAMBRIDGE DISTRICT

Box 2186, Cambridge, Ont. N3C 2W1
 Phone (519) 658-9355

D. P. Kolenosky.....	A/District Manager
B. J. DeGunst.....	Support Services
C. Selby.....	Fish & Wildlife
S. Yorgan.....	Forest Management
B. L. Houck.....	Parks
D. A. Routly.....	Lands & Minerals

NIAGARA DISTRICT

Box 1070, Hwy. 20, Fonthill, Ont. L0S 1E0
 Phone (416) 892-2656

A. Harjula.....	District Manager
A. J. Vos.....	Support Services
E. A. Kraker.....	Forests
G. Mulder.....	Outdoor Recreation
J. Z. Fraser.....	Lands & Minerals

SOUTHWESTERN REGION

659 Exeter Rd., Box 5463, London, Ont. N6A 4L6

Regional Director.....	D. J. Johnstone.....	(519) 661-2743
Deputy Reg. Director.....	R. W. Beecher.....	(519) 661-2735
Deputy Reg. Director.....	R. G. Elliott.....	(519) 661-2734
Secretary.....	J. M. Nagle.....	(519) 661-2775
General Inquiry.....	.....	(519) 661-2800
EOS (Electronic Office Service).	.....	MNR-800

Co-ordinators

Finance and Administration.....	B. G. Griffin.....	(519) 661-2752
Fisheries.....	R. E. Loblaw	
	N. W. Smith.....	(519) 661-2747
Conservation Authorities.....	R. W. Messervey.....	(519) 661-2736
Forestry and Wildlife.....	J. A. Fingland.....	(519) 661-2741
Parks and Recreation.....	P. H. Sturdy.....	(519) 661-2742
Enforcement.....	R. P. Wells.....	(519) 661-2740
Personnel.....	D. C. Watt.....	(519) 661-2733
Mineral Resources.....	P. A. Palonen.....	(519) 661-2711
Engineering.....	P. H. Crook.....	(519) 661-2722
Communications.....	J. N. Cooper.....	(519) 661-2730
Planning.....	I. C. Seddon.....	(519) 661-2727
Petroleum Resources Laboratory...	.....	(519) 661-2796

CHATHAM DISTRICT

Box 1168, 435 Grand Avenue, Chatham, Ont. N7M 5L8
Phone (519) 354-7340

W. L. McNab.....	District Manager
B. Hall.....	Support Services
K. Yaraskavitch.....	Resource Planning
A. D. Carr.....	Operations
H. W. Rowe.....	Extension Services
H. Manson.....	Station Manager
	Lake Erie Fisheries Unit

SIMCOE DISTRICT

548 Queensway West, Simcoe, Ont. N3Y 4T2
Phone (519) 426-7650

M. F. McKenzie.....	District Manager
A. McGarrity.....	Support Services
J. M. Collins.....	Resource Planning
R. Manley.....	Operations
W. L. Edwards.....	Extension Services

OWEN SOUND DISTRICT

611 Ninth Avenue East, Owen Sound, Ont. N4K 3E4
Phone (519) 376-3860

R. W. Tippet.....	District Manager
M. Gobeil.....	Support Services
S. A. Monroe.....	Lake Huron Fishery Operations Co-ordinator
W. J. Lambie.....	Resource Planning
P. H. Baxter.....	Operations
K. Hawthorne.....	Extension Services
E. G. Walker.....	Reg. Fire Co-ordinator

WINGHAM DISTRICT

R.R. #5, Wingham, Ont. NOG 2W0
Phone (519) 357-3131

H. A. Orr.....	A/District Manager
O. E. Crawford.....	Support Services
W. A. Creighton.....	Resource Planning
H. R. Lancaster.....	Operations
R. H. Spurr.....	Extension Services

AYLMER DISTRICT

353 Talbot St. W., Aylmer, Ont. N5H 2S8
Phone (519) 773-9241

D. G. Watton.....	District Manager
D. L. Clarke.....	Support Services
G. R. Austin.....	Operations
S. Kerr.....	Resource Planning
D. G. Ward.....	Extension Services
J. W. E. Lau.....	Mineral Resources

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